

EXHIBIT B

REDACTED

Civil Action No. 16-538
Plaintiff's Trial Exhibit List

PX #	Description	BatesBegin	BatesEnd
PX0001	U.S. Patent 7,128,988 B2	LAMBETH-000000001	LAMBETH-000000041
PX0002	U.S. Patent No. 7,128,988 (Certified Copy)		
PX0003	U.S. Patent 7,128,988 B2 File Wrapper	LAMBETH-000000042	LAMBETH-000000475
PX0004	Provisional Application No. 60/315,920	LAMBETH-000138762	LAMBETH-000138848
PX0005	PCT Application No. PCT/US02/27327	LAMBETH-000224975	LAMBETH-000225084
PX0006	Declaration for U.S. Pat. App. 10/415,757, dated August 29, 2003	LAMBETH-000000135	LAMBETH-000000136
PX0007	USPTO Assignment Records for U.S. Pat. App. 10/415,757, dated August 29, 2003	LAMBETH-000222054	LAMBETH-000222077
PX0008	International patent WO 03/021579 A1	LAMBETH-000140039	LAMBETH-000140148
PX0009	U.S. Patent No. 10,496,918		
PX0010	U.S. Patent No. 10,467,521		
PX0011	U.S. Patent No. 10,255,545		
PX0012	U.S. Patent No. 10,223,631		
PX0013	U.S. Patent No. 10,198,687		
PX0014	U.S. Patent No. 10,032,100		
PX0015	U.S. Patent No. 9,875,437		
PX0016	U.S. Patent No. 9,704,088		
PX0017	U.S. Patent No. 9,639,796		
PX0018	U.S. Patent No. 9,547,816		
PX0019	U.S. Patent No. 9,384,438		
PX0020	U.S. Patent No. 9,373,069		
PX0021	U.S. Patent No. 9,361,569		
PX0022	U.S. Patent No. 9,004,368		
PX0023	U.S. Patent No. 8,973,824		
PX0024	U.S. Patent No. 8,881,989		
PX0025	U.S. Patent No. 8,875,999		
PX0026	U.S. Patent No. 8,668,143		
PX0027	U.S. Patent No. 8,608,083		
PX0028	U.S. Patent No. 8,602,312		
PX0029	U.S. Patent No. 8,590,796		
PX0030	U.S. Patent No. 8,579,203		
PX0031	U.S. Patent No. 8,540,209		
PX0032	U.S. Patent No. 8,517,276		
PX0033	U.S. Patent No. 8,459,548		
PX0034	U.S. Patent No. 8,424,773		
PX0035	U.S. Patent No. 8,382,000		
PX0036	U.S. Patent No. 8,286,876		
PX0037	U.S. Patent No. 8,020,775		
PX0038	U.S. Patent No. 8,011,577		
PX0039	U.S. Patent No. 7,056,455		
PX0040	U.S. Patent No. 6,649,277		
PX0041	U.S. Patent No. 6,596,417		
PX0042	U.S. Patent No. 6,432,563		
PX0043	U.S. Patent No. 6,248,416		
PX0044	U.S. Patent No. 6,111,507		
PX0045	U.S. Patent No. 5,999,098		
PX0046	U.S. Patent No. 5,993,956		
PX0047	U.S. Patent No. 5,969,612		
PX0048	U.S. Patent No. 5,800,931		
PX0049	U.S. Patent No. 5,693,426		
PX0050	U.S. Patent No. 5,344,706		
PX0051	U.S. Patent No. 5,255,119		
PX0052	U.S. Patent No. 5,108,781		
PX0053	U.S. Patent No. 5,062,021		
PX0054	U.S. Patent No. 4,826,312		
PX0055	U.S. Patent No. 4,644,572		
PX0056	U.S. Patent No. 4,527,891		
PX0057	U.S. Patent No. 4,521,106		
PX0058	U.S. Patent No. 4,494,868		
PX0059	U.S. Patent No. 4,460,259		
PX0060	U.S. Patent No. 4,423,934		
PX0061	U.S. Patent No. 4,413,892		
PX0062	U.S. Patent No. 4,220,971		
PX0063	U.S. Patent No. 4,101,947		
PX0064	CV of David N. Lambeth [2/26/2018 Deposition of David Lambeth, Ex. 2]	LAMBETH-000139373	LAMBETH-000139394
PX0065	Document entitled "Assignment of Patents" signed by David Lambeth and Mary T. Gordon, dated 3/18/2014 [2/26/2018 Deposition of David Lambeth, Ex. 8]	LAMBETH-000139370	LAMBETH-000139372
PX0066	Agreement entitled "Consultancy, Confidentiality, and Facilities Use Agreement" between Lake Shore Cryotronic Inc. and Lambeth Systems, dated 10/7/1999 [2/26/2018 Deposition of David Lambeth, Ex. 10]	LAMBETH-000231300	LAMBETH-000231305
PX0067	Document entitled "Sputter Deposition Record Sheet" dated 10/22/1999 [2/26/2018 Deposition of David Lambeth, Ex. 11]	LAMBETH-000138445	LAMBETH-000138534

PX #	Description	BatesBegin	BatesEnd
PX0068	Document entitled "Sputter Deposition Record Sheets, LS0802-1" dated 7/12/2000 [2/26/2018 Deposition of David Lambeth, Ex. 12]	LAMBETH-000138535	LAMBETH-000138584
PX0069	Document entitled "Sputter Deposition Record Sheet, LS1425-01, 02, 03" dated 7/12/2000 [2/26/2018 Deposition of David Lambeth, Ex. 13]	LAMBETH-000136237	LAMBETH-000136260
PX0070	Lab Notebook of David Lambeth, first entry dated 10/20/1999 [2/26/2018 Deposition of David Lambeth, Ex. 14]	LAMBETH-000137377	LAMBETH-000137423
PX0071	Lab Notebook of David Lambeth, first entry dated 1/24/2000 [2/26/2018 Deposition of David Lambeth, Ex. 15]	LAMBETH-000147354	LAMBETH-000137480
PX0072	Agreement entitled "Settlement and Patent License Agreement" between Lambeth Magnetic Structures, LLC, David A. Lambeth, and TDK Corporation, dated 3/28/2017 [2/26/2018 Deposition of David Lambeth, Ex. 16]	LAMBETH-000222078	LAMBETH-000222098
PX0073	Document entitled "Lake Shore Cryotronics, Inc. Vibrating Sample Magnetometer, Profile Execution Log" dated 10/5/2000 [2/26/2018 Deposition of David Lambeth, Ex. 18]	LAMBETH-000137826	LAMBETH-000137833
PX0074	Document entitled "Lake Shore Cryotronics, Inc. Vibrating Sample Magnetometer, Profile Execution Log" dated 10/4/2001 [2/26/2018 Deposition of David Lambeth, Ex. 19]	LAMBETH-000137781	LAMBETH-000137805
PX0075	Document entitled "Lake Shore Cryotronics, Inc. Vibrating Sample Magnetometer, Profile Execution Log" dated 10/5/2002 [2/26/2018 Deposition of David Lambeth, Ex. 20]	LAMBETH-000137850	LAMBETH-000137859
PX0076	Document entitled "Lake Shore Cryotronics, Inc. Vibrating Sample Magnetometer, Profile Execution Log" dated 4/26/2003 [2/26/2018 Deposition of David Lambeth, Ex. 21]	LAMBETH-000136627	LAMBETH-000136642
PX0077	Letter dated 1/18/1989 from Stephen Director to David Lambeth, RE: Lambeth's appointment as full professor with tenure at CMU [2/27/2018 Deposition of David Lambeth, Ex. 22]	CMU_000014	CMU_000015
PX0078	Agreement entitled "Faculty Appointment" between David Lambeth and CMU, dated 10/1/1989 [2/27/2018 Deposition of David Lambeth, Ex. 23]	CMU_000058	
PX0079	Document entitled "V. University Policies; Intellectual Property Policy," dated 7/30/1985 [2/27/2018 Deposition of David Lambeth, Ex. 24]	CMU_002778	CMU_002786
PX0080	Document entitled "NSF Engineering Research Center in Data Storage Systems, Carnegie Mellon University, NSF Site Visit Report" dated 3/3/1999 [2/27/2018 Deposition of David Lambeth, Ex. 25]	LAMBETH-000147861	LAMBETH-000147861
PX0081	Document entitled "DSSC Membership Agreements" [2/27/2018 Deposition of David Lambeth, Ex. 26]	CMU1_004190	CMU1_004224
PX0082	Document entitled "DSSC Associate Member Advisory Board Meeting Minutes" dated 10/2/1996 [2/27/2018 Deposition of David Lambeth, Ex. 27]	CMU1_004250	
PX0083	Document entitled "Formation of crystallographic texture in rf sputter-deposited Cr thin films" by Y.C. Feng, D.E. Laughlin, and D.N. Lambeth, dated 7/29/1994 [2/27/2018 Deposition of David Lambeth, Ex. 28]	LAMBETH-000001927	LAMBETH-000001932
PX0084	Document entitled "Magnetic Media Performance: Control Methods for Crystalline Texture and Orientation" by David Lambeth, Wei Yang, Heng Gong, David Laughlin, Bin Lu, Li-Lien Lee, Jie Zhou, and Peter Harllee, dated 1998 [2/27/2018 Deposition of David Lambeth, Ex. 29]	LAMBETH-000001836	LAMBETH-000001932
PX0085	Document entitled "CRYSTALLINE TEXTURE OF CoCrPt FILMS ON CrMn/NiAl AND Cr/NiAl UNDERLAYER STRUCTURES" by J. Zhou, B. Lu, A.E. Bayer, D.E. Laughlin, and D.N. Lambeth, dated 1999 [2/27/2018 Deposition of David Lambeth, Ex. 30]	SEA00001694	SEA00001699
PX0086	Document entitled "Structure and magnetic properties of SmCo thin films on Cr/Ag/Si templates" from Journal of Applied Physics Vol. 85, No. 8, by G. Zangari, B. Lu, D.E. Laughlin, and D.N. Lambeth, dated 4/15/1999 [2/27/2018 Deposition of David Lambeth, Ex. 31]	SEA00001684	SEA00001687
PX0087	Document entitled "Texture evolution in CoCrPtTa/Cr/NiAl magnetic recording media" from Journal of Applied Physics, Vol. 85, No. 8, by B. Lu, D.E. Laughlin, D.N. Lambeth, S.Z. Wu, R. Ranjan, and G.C. Rauch, dated 4/15/1999 [2/27/2018 Deposition of David Lambeth, Ex. 32]	LAMBETH-000001159	LAMBETH-000001161
PX0088	Document entitled "Epitaxial Growth of Quad-Crystal Co-Alloy Magnetic Recording Media" from Transactions on Magnetics, Vol. 35, by Heng Gong, Wei Yang, Maithri Ron, David Laughlin, and David Lambeth, dated 9/1999 [2/27/2018 Deposition of David Lambeth, Ex. 33]	LAMBETH-000001838	LAMBETH-000001840
PX0089	Document entitled "David N. Lambeth: 1996 CIT Faculty Annual Report" by David Lambeth dated 2/21/1997 [2/27/2018 Deposition of David Lambeth, Ex. 34]	LAMBETH-000142351	LAMBETH-000152358
PX0090	Document entitled "CIT Faculty Annual Report" by David Lambeth dated 12/31/1997 [2/27/2018 Deposition of David Lambeth, Ex. 35]	LAMBETH-000142359	LAMBETH-000152370
PX0091	Document entitled "CIT Faculty Annual Report" by David Lambeth dated 12/31/1998 [2/27/2018 Deposition of David Lambeth, Ex. 36]	LAMBETH-000140985	LAMBETH-000140990
PX0092	Memo dated 8/10/1998 from Mark Kryder to DSSC Faculty, Staff and Students, RE: "DSSC Intellectual Property, Consulting, and Conflict of Interest Application Guidelines" [2/27/2018 Deposition of David Lambeth, Ex. 39]	SEA03141299	SEA03141304
PX0093	Memo dated 5/6/1999 from R.M. White to DSSC Faculty, Staff, and Students, RE: "DSSC Intellectual Property, Consulting, and Conflict of Interest Application Guidelines" [2/27/2018 Deposition of David Lambeth, Ex. 40]	LAMBETH-000147999	LAMBETH-000148007

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PX #	Description	BatesBegin	BatesEnd
PX0094	Email dated 4/8/1999 from David Lambeth to R.M. White, J. Anderson, A.D. Rollett, RE: "Leave of Absence during 8/31/99 to 9/1/2000" [2/27/2018 Deposition of David Lambeth, Ex. 41]	CMU_000010	
PX0095	Memo dated 8/13/1997 from Robert White and John L. Anderson to David Lambeth, RE: "Feedback on Peer Review of Tenured Faculty" [2/27/2018 Deposition of David Lambeth, Ex. 42]	CMU1_002931	
PX0096	Memo dated 8/31/1999 from David Lambeth to Robert White, Pradeep Khosla, Anthony Rollet, and John Anderson, RE: "Formal DSSC Resignation" [2/27/2018 Deposition of David Lambeth, Ex. 43]	CMU_000004	
PX0097	Application entitled "Faculty Leave of Absence Program Application Form - AY99-00" signed by David Lambeth dated 8/1/1999 [2/27/2018 Deposition of David Lambeth, Ex. 44]		
PX0098	Letter dated 9/7/1999 from Paul Christiano to David Lambeth, RE: Approved leave of absence request [2/27/2018 Deposition of David Lambeth, Ex. 45]	CMU1_002613	CMU1_002618
PX0099	Application entitled "Faculty Leave of Absence Application Form Academic Year 2000-2001" signed by David Lambeth, dated 1/9/2000 [2/27/2018 Deposition of David Lambeth, Ex. 46]	LAMBETH-000140384	LAMBETH-000140385
PX0100	Letter dated 2/15/2000 from Paul Christiano to David Lambeth, RE: Approved leave of absence request [2/27/2018 Deposition of David Lambeth, Ex. 47]	CMU1_002919	
PX0101	Document entitled "CIT Faculty Annual Report for January 1 - December 31, 22 2001" [2/27/2018 Deposition of David Lambeth, Ex. 48]	LAMBETH-000143340	LAMBETH-000143359
PX0102	Email dated 12/30/2001 from David Lambeth to Tomasz Kowalewski and Elias Towe, RE: "Getting your email, DNL" [2/27/2018 Deposition of David Lambeth, Ex. 49]	LAMBETH-000242907	LAMBETH-000242909
PX0103	Email dated 11/1/2000 from David Lambeth to Jason Wolf, RE: "XRD" [2/27/2018 Deposition of David Lambeth, Ex. 51]	LAMBETH-000154506	
PX0104	Email dated 11/28/2000 from Jason Wolf to David Lambeth, RE: "Pole Figure" with attachments [2/27/2018 Deposition of David Lambeth, Ex. 52]	LAMBETH-000147342	
PX0105	Email dated 11/28/2000 from David Lambeth to Jason Wolf, RE: "data Nov 28 2000" [2/27/2018 Deposition of David Lambeth, Ex. 53]	LAMBETH-000154511	LAMBETH-000144512
PX0106	Email dated 5/3/2001 from David Lambeth to Jason Wolf, RE: "Pole figure measurement" [2/27/2018 Deposition of David Lambeth, Ex. 54]	LAMBETH-000154516	
PX0107	Email dated 5/8/2001 from David Lambeth to Jason Wolf, RE: "Measurements TBD" with attachments [2/27/2018 Deposition of David Lambeth, Ex. 55]	LAMBETH-000154517	LAMBETH-000144519
PX0108	Email dated 5/18/2001 from Jason Wolf to David Lambeth, RE: "One pole figure done" with attachments [2/27/2018 Deposition of David Lambeth, Ex. 56]	LAMBETH-000147553	
PX0109	Email dated 5/18/2001 from David Lambeth to Jason Wolf, RE: "Re: One Pole Figure done" [2/27/2018 Deposition of David Lambeth, Ex. 57]	LAMBETH-000147555	LAMBETH-000147556
PX0110	Email dated 5/18/2001 from Jason Wolf to David Lambeth, RE: "Re: One Pole Figure done" [2/27/2018 Deposition of David Lambeth, Ex. 58]	LAMBETH-000147558	
PX0111	Email dated 6/1/2001 from David Lambeth to Jason Wolf, RE: "LS0909-06 and -05 Cu!" [2/27/2018 Deposition of David Lambeth, Ex. 59]	LAMBETH-000154526	
PX0112	Email dated 8/25/2001 from Jason Wolf to David Lambeth, RE: "8 Pole Figure attached" with attachments [2/27/2018 Deposition of David Lambeth, Ex. 60]	LAMBETH-000147571	LAMBETH-000147572
PX0113	Email dated 8/27/2001 From Jason Wolf to David Lambeth, RE: "2 more pole figures" with attachments [2/27/2018 Deposition of David Lambeth, Ex. 61]	LAMBETH-000147576	LAMBETH-000147577
PX0114	Email dated 8/27/2001 from Jason Wolf to David Lambeth, RE: "JW not at CMU" [2/27/2018 Deposition of David Lambeth, Ex. 62]	LAMBETH-000147578	
PX0115	Email dated 8/27/2001 from David Lambeth to Jason Wolf, RE: "Re: JW not at CMU" [2/27/2018 Deposition of David Lambeth, Ex. 63]	LAMBETH-000147579	
PX0116	Email dated 8/28/2001 from Jason Wolf to David Lambeth, RE: "Fine scans" with attachments [2/27/2018 Deposition of David Lambeth, Ex. 64]	LAMBETH-000147580	LAMBETH-000147581
PX0117	Email dated 8/29/2001 from Jason Wolf to David Lambeth, RE: "How's it going?" [2/27/2018 Deposition of David Lambeth, Ex. 65]	LAMBETH-000147582	
PX0118	Email dated 8/29/2001 from David Lambeth to Jason Wolf, RE: "Re: How's it going?" [2/27/2018 Deposition of David Lambeth, Ex. 66]	LAMBETH-0000147583	
PX0119	Email dated 8/25/2001 from Yorikatsu Hohokabe to David Lambeth and Yasumasa Sasaki, RE: "Re: Patent application to be filed on August 29" with attachments [2/27/2018 Deposition of David Lambeth, Ex. 67]	LAMBETH-000240835	LAMBETH-0002400908
PX0120	Email dated 8/10/2001 from David Lambeth to Ron Goldfarb, RE: "Lambeth Systems Proposal" with attachment [2/27/2018 Deposition of David Lambeth, Ex. 68]	LAMBETH-000149368	LAMBETH-000149372
PX0121	Email dated 9/10/2001 from David Lambeth to Ron Goldfarb, RE: "Re: Nanomagnetodynamics" [2/27/2018 Deposition of David Lambeth, Ex. 69]	LAMBETH-000149387	LAMBETH-000149388
PX0122	Email dated 10/9/2000 from David Lambeth to Phil Swineheart, Leo Chapin, and Michael Swartz, RE: "Re: Your Data" [2/27/2018 Deposition of David Lambeth, Ex. 70]	LAMBETH-000148440	LAMBETH-000148442
PX0123	Email dated 4/13/2001 from David Lambeth to Phil Swineheart and Leo Chapin, RE: "Re: More on EDM" [2/27/2018 Deposition of David Lambeth, Ex. 71]	LAMBETH-000147511	LAMBETH-000147512

PX #	Description	BatesBegin	BatesEnd
PX0124	Email dated 1/16/2006 from David Lambeth to Li-Lien Lee, RE: "USPatent 007128988" [2/27/2018 Deposition of David Lambeth, Ex. 72]	LAMBETH-000243008	
PX0125	Email dated 12/28/2006 from David Lambeth to Youping Deng, RE: "Re: Happy New Year" [2/27/2018 Deposition of David Lambeth, Ex. 73]	LAMBETH-000243009	LAMBETH-000243010
PX0126	Email dated 1/6/2009 from David Lambeth to Youping Deng, RE: "Re[2]: Happy Holidays" [2/27/2018 Deposition of David Lambeth, Ex. 74]	LAMBETH-000243091	LAMBETH-000243093
PX0127	Email dated 1/10/2009 from David Lambeth to Sam Velu, RE: "Re: keep-in touch" [2/27/2018 Deposition of David Lambeth, Ex. 75]	LAMBETH-000243094	LAMBETH-000243095
PX0128	Document entitled "Uniaxial Magnetic BC Thin Films Resulting From Symmetry Broken Structures" by David Lambeth [2/27/2018 Deposition of David Lambeth, Ex. 76]	LAMBETH-000236420	LAMBETH-000236453
PX0129	Document entitled "Table A" [2/27/2018 Deposition of David Lambeth, Ex. 77]	LAMBETH-00032853	
PX0130	Memorandum from David N. Lambeth to Robert M. White re: Formal DSSC Resignation - Woolridge Dep. Ex. 13, dated August 31, 1999	CMU000004	
PX0131	Assignment Agreement between Lambeth Systems and SBS Magnetics LLC, dated December 18, 2010	LAMBETH-000212899	LAMBETH-000212917
PX0132	Magnetic Measurements of sample 17-1c-100-MH@75 89 90 91 97deg~2	LAMBETH-000022695	LAMBETH-000022695
PX0133	Magnetic Measurements of sample 17-1c110MH187 186 184etcby1deg~3	LAMBETH-000025374	LAMBETH-000025375
PX0134	Magnetic Measurements of sample 17-1c110MHby1oe@183or183 5~1	LAMBETH-000025604	LAMBETH-000025605
PX0135	Magnetic Measurements of sample 17-1c111 MH@Ang very1deg~27	LAMBETH-000029896	LAMBETH-000029897
PX0136	Magnetic Measurements of sample 17-1c111 MH@Ang very1deg~70	LAMBETH-000030025	LAMBETH-000030026
PX0137	Measurements from sample LS1425 02cx FPaflat250x10sen@178	LAMBETH-000038226	LAMBETH-000038226
PX0138	Measurements from sample LS1425 02cx FPaflat250x10sen@183	LAMBETH-000038236	LAMBETH-000038236
PX0139	Measurements from sample LS1425 02cx FPaflatMH25-5@178PreMEA	LAMBETH-000038245	LAMBETH-000038245
PX0140	Measurements from sample LS1425 02cx FPaflat0 20x2sen@190PM280	LAMBETH-000038542	LAMBETH-000038542
PX0141	Measurements from sample LS1425 02cx FPaflat250x10sen@183preMEA	LAMBETH-000038552	LAMBETH-000038552
PX0142	Measurements from sample LS1425 02cx FPaflatMH15-5@178PreMEA	LAMBETH-000038560	LAMBETH-000038560
PX0143	Measurements from sample LS1425 02cx FPaflat250x10sen@190-5#1	LAMBETH-000040195	LAMBETH-000040195
PX0144	Measurements from sample LS1425 02cx FPaflat250x10sen@190-5#2	LAMBETH-000040205	LAMBETH-000040205
PX0145	Measurements from sample LS1425 02cx FPaflat250x10sen@190-5#3	LAMBETH-000040215	LAMBETH-000040215
PX0146	Measurements from sample LS1425 02cx FPaflat250x10sen@190-5#4	LAMBETH-000040225	LAMBETH-000040225
PX0147	Measurements from sample LS1425 02cx FPaflat250x10sen@190-5#5	LAMBETH-000040235	LAMBETH-000040235
PX0148	Measurements from sample LS1425 02cx FPaflat250x10sen@190-5#6	LAMBETH-000040245	LAMBETH-000040245
PX0149	Measurements from sample LS1425 02cx FPaflat250x10sen@190-5#7	LAMBETH-000040255	LAMBETH-000040255
PX0150	Measurements from sample LS1425 02cx FPaflat250x10sen@190-5#8	LAMBETH-000040265	LAMBETH-000040265
PX0151	Measurements from sample LS1425 02cx FPaflat250x10sen@190-5#9	LAMBETH-000040275	LAMBETH-000040275
PX0152	Measurements from sample P190-5deg MH250 50x10sen Log	LAMBETH-000040276	LAMBETH-000040278
PX0153	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#1	LAMBETH-000040289	LAMBETH-000040289
PX0154	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#2	LAMBETH-000040300	LAMBETH-000040300
PX0155	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#3	LAMBETH-000040311	LAMBETH-000040311
PX0156	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#4	LAMBETH-000040322	LAMBETH-000040322
PX0157	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#5	LAMBETH-000040333	LAMBETH-000040333
PX0158	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#6	LAMBETH-000040344	LAMBETH-000040344
PX0159	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#7	LAMBETH-000040355	LAMBETH-000040355
PX0160	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#8	LAMBETH-000040366	LAMBETH-000040366
PX0161	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#9	LAMBETH-000040377	LAMBETH-000040377
PX0162	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#10	LAMBETH-000040388	LAMBETH-000040388
PX0163	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#11	LAMBETH-000040399	LAMBETH-000040399
PX0164	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#12	LAMBETH-000040410	LAMBETH-000040410
PX0165	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#13	LAMBETH-000040421	LAMBETH-000040421
PX0166	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#14	LAMBETH-000040432	LAMBETH-000040432
PX0167	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#15	LAMBETH-000040443	LAMBETH-000040443
PX0168	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#16	LAMBETH-000040454	LAMBETH-000040454
PX0169	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#17	LAMBETH-000040465	LAMBETH-000040465
PX0170	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#18	LAMBETH-000040476	LAMBETH-000040476
PX0171	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#19	LAMBETH-000040487	LAMBETH-000040487
PX0172	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#20	LAMBETH-000040498	LAMBETH-000040498
PX0173	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#21	LAMBETH-000040509	LAMBETH-000040509
PX0174	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#22	LAMBETH-000040520	LAMBETH-000040520
PX0175	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#23	LAMBETH-000040531	LAMBETH-000040531
PX0176	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#24	LAMBETH-000040542	LAMBETH-000040542
PX0177	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#25	LAMBETH-000040553	LAMBETH-000040553
PX0178	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#26	LAMBETH-000040564	LAMBETH-000040564
PX0179	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#27	LAMBETH-000040575	LAMBETH-000040575
PX0180	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#28	LAMBETH-000040586	LAMBETH-000040586
PX0181	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#29	LAMBETH-000040597	LAMBETH-000040597
PX0182	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#30	LAMBETH-000040608	LAMBETH-000040608
PX0183	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#31	LAMBETH-000040619	LAMBETH-000040619
PX0184	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#32	LAMBETH-000040630	LAMBETH-000040630
PX0185	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#33	LAMBETH-000040641	LAMBETH-000040641
PX0186	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#34	LAMBETH-000040652	LAMBETH-000040652
PX0187	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#35	LAMBETH-000040663	LAMBETH-000040663
PX0188	Measurements from sample LS1425 02cx FPaflat500x10sen@125+5#36	LAMBETH-000040674	LAMBETH-000040674

PX #	Description	BatesBegin	BatesEnd
PX0189	Measurements from sample LS1425_02cx_FPaflat500x10sen@125+5#37	LAMBETH-000040685	LAMBETH-000040685
PX0190	Measurements from sample P125+5deg_MH500_50x10sen_Log	LAMBETH-000040686	LAMBETH-000040694
PX0191	Measurements from sample 0909-6.xls	LAMBETH-000042522	LAMBETH-000042522
PX0192	Measurements from sample 0909-6ab	LAMBETH-000042524	LAMBETH-000042576
PX0193	Measurements from sample 0909-6fb	LAMBETH-000042578	LAMBETH-000042630
PX0194	Measurements from sample Si111Ag111Fe110Fe200comments	LAMBETH-000046104	LAMBETH-000046104
PX0195	Measurements from sample LS0909-6LC_0flatE503d_20011dep_@184~+0	LAMBETH-000118435	LAMBETH-000118436
PX0196	Measurements from sample LS0909-6LC_0flatE503d_20011dep_@186~+3	LAMBETH-000118438	LAMBETH-000118439
PX0197	Measurements from sample LS0909-6LC_0flatE503d_20011dep_@187_5~+2	LAMBETH-000118441	LAMBETH-000118442
PX0198	Measurements from sample LS0909-6LC_0flatE503s_20011dep_@184~+0	LAMBETH-000118444	LAMBETH-000118444
PX0199	Measurements from sample LS0909-6LC_0flatRE60_11dep+9	LAMBETH-000118446	LAMBETH-000118446
PX0200	Measurements from sample LS0909-6LC_0flatRE150_11dep+9	LAMBETH-000118448	LAMBETH-000118448
PX0201	Measurements from sample LS0909-6LC_0flatRE185-185_11dep+9~1	LAMBETH-000118450	LAMBETH-000118450
PX0202	Measurements from sample LS0909-6LC_0flatRE250-150_11dep+9	LAMBETH-000118452	LAMBETH-000118452
PX0203	Measurements from sample LS0909-6LC_0flatRE300-170_11dep+9	LAMBETH-000118454	LAMBETH-000118454
PX0204	Measurements from sample LS0909-6LC_0flatRE300-190_11dep+9	LAMBETH-000118456	LAMBETH-000118456
PX0205	Measurements from sample LS0909-6LC11depE503_0deg	LAMBETH-000118458	LAMBETH-000118459
PX0206	Measurements from sample LS0909-6LC_0flatE503d_20011dep_S@90+9+0+-3-5~1	LAMBETH-000121800	LAMBETH-000121801
PX0207	Measurements from sample LS0909-6LC_0flatE503d_20011dep_S@90+9+0+-3-5~2	LAMBETH-000121803	LAMBETH-000121804
PX0208	Measurements from sample LS0909-6LC_0flatE503d_20011dep_S@90+9+0+-3-5~3	LAMBETH-000121806	LAMBETH-000121807
PX0209	Measurements from sample LS0909-6LC_0flatE503d_20011dep_S@90+9+0+-3-5~4	LAMBETH-000121809	LAMBETH-000121810
PX0210	Measurements from sample LS0909-6LC_0flatE503d_20011dep_S@90+9+0+-3-5~5	LAMBETH-000121812	LAMBETH-000121813
PX0211	Measurements from sample P503d_200_11dep_s&c@90+9+0+-3_Log	LAMBETH-000121814	LAMBETH-000121814
PX0212	Measurements from sample LS0909-6LC_0flatRE503_11dep+9+90~1	LAMBETH-000121913	LAMBETH-000121914
PX0213	Measurements from sample LS0909-6LC_0flatRE503_11dep+9+90~2	LAMBETH-000121916	LAMBETH-000121917
PX0214	Measurements from sample PE503d-200+9+90_Log	LAMBETH-000121918	LAMBETH-000121918
PX0215	Measurements from sample LS0909-6LC_0flatRE50311dep+90+9+0-9~1	LAMBETH-000122105	LAMBETH-000122106
PX0216	Measurements from sample LS0909-6LC_0flatRE50311dep+90+9+0-9~2	LAMBETH-000122108	LAMBETH-000122109
PX0217	Measurements from sample LS0909-6LC_0flatRE50311dep+90+9+0-9~3	LAMBETH-000122111	LAMBETH-000122112
PX0218	Measurements from sample LS0909-6LC_0flatRE50311dep+90+9+0-9~4	LAMBETH-000122114	LAMBETH-000122115
PX0219	Measurements from sample PE503_+90+9+0-9_Log	LAMBETH-000122116	LAMBETH-000122116
PX0220	Measurements from sample LS0909-6LC_0flatRPE150-150demag210_11dep+9~1	LAMBETH-000122156	LAMBETH-000122156
PX0221	Measurements from sample PE150-150demag210_Log	LAMBETH-000122157	LAMBETH-000122158
PX0222	Measurements from sample LS0909-6LC_0flatRPE170-170demag195_11dep+9~1	LAMBETH-000122197	LAMBETH-000122197
PX0223	Measurements from sample PE170-170+demag195_Log	LAMBETH-000122198	LAMBETH-000122198
PX0224	Measurements from sample LS0909-6LC_0flatE0-15011dep180	LAMBETH-000123604	LAMBETH-000123604
PX0225	Measurements from sample LS0909-6LC_0flatE0-17511dep180	LAMBETH-000123606	LAMBETH-000123606
PX0226	Measurements from sample LS0909-6LC_0flatE0-20011dep180	LAMBETH-000123608	LAMBETH-000123608
PX0227	Measurements from sample LS0909-6LC_0flatE0-22511dep180	LAMBETH-000123610	LAMBETH-000123610
PX0228	Measurements from sample 503_+55+35+20-20-35-55_Log	LAMBETH-000128364	LAMBETH-000128365
PX0229	Measurements from sample LS0909-6LC_0flatRPE50311dep+55+35+20-20-35-55~1	LAMBETH-000128643	LAMBETH-000128644
PX0230	Measurements from sample LS0909-6LC_0flatRPE50311dep+55+35+20-20-35-55~2	LAMBETH-000128646	LAMBETH-000128647
PX0231	Measurements from sample LS0909-6LC_0flatRPE50311dep+55+35+20-20-35-55~3	LAMBETH-000128649	LAMBETH-000128650
PX0232	Measurements from sample LS0909-6LC_0flatRPE50311dep+55+35+20-20-35-55~4	LAMBETH-000128652	LAMBETH-000128653
PX0233	Measurements from sample LS0909-6LC_0flatRPE50311dep+55+35+20-20-35-55~5	LAMBETH-000128655	LAMBETH-000128656
PX0234	Measurements from sample LS0909-6LC_0flatRPE50311dep+55+35+20-20-35-55~6	LAMBETH-000128658	LAMBETH-000128659
PX0235	Measurements from sample LS0909-6LC_0flatRE50211dep+90	LAMBETH-000135642	LAMBETH-000135643
PX0236	Measurements from sample P502b-11dep+90+9+0-9_Log	LAMBETH-000135644	LAMBETH-000135644
PX0237	Measurements from sample LS0909-6LC_0flatRE50211dep+90+9+0-9~1	LAMBETH-000135751	LAMBETH-000135752
PX0238	Measurements from sample P125+5deg_MH500_50x10sen	LAMBETH-000136577	LAMBETH-000136626
PX0239	Magnetic Measurements of samples taken at Lakeshore	LAMBETH-000137483	LAMBETH-000137494
PX0240	Measurements from sample LS0909-6	LAMBETH-000137692	LAMBETH-000137692
PX0241	Measurements from sample LS0909-6LC	LAMBETH-000137738	LAMBETH-000137739
PX0242	Measurements from sample LS0909-6LC	LAMBETH-000138190	LAMBETH-000138193
PX0243	Agreement entitled "Consultancy, Confidentiality, and Facilities Use Agreement" between Lake Shore Cryotronic and Lambeth Systems, dated 10/7/1999	LAMBETH-000140029	LAMBETH-000140034
PX0244	Leave of Absence Application of David Lambeth, for Academic Year 2000-2001	LAMBETH-000144377	LAMBETH-000144379
PX0245	Email dated 1/22/2000 from Bin Lu to David Lambeth Re Samples	LAMBETH-000144696	LAMBETH-000144696
PX0246	Magnetic Measurements of sample 17-1cSi111	LAMBETH-000144697	LAMBETH-000144712
PX0247	Email dated 12/20/2000 from Bin Lu to David Lambeth Re 2000 XRD charges?	LAMBETH-000147352	LAMBETH-000147352
PX0248	Bin Lu Confidential Disclosure Agreement, dated October 5, 1999	LAMBETH-000147670	LAMBETH-000147671
PX0249	Measurements from sample LS0909-5LC	LAMBETH-000137806	LAMBETH-000137825
PX0250	Measurements from sample LS0909-5LC	LAMBETH-000137826	LAMBETH-000137833
PX0251	Measurements from sample LS0909-5LC	LAMBETH-000137834	LAMBETH-000137840
PX0252	Measurements from sample LS0909-5LC	LAMBETH-000137841	LAMBETH-000137847
PX0253	Measurements from sample LS0909-5LC	LAMBETH-000137848	
PX0254	Measurements from sample LS0909-5LC	LAMBETH-000138194	LAMBETH-000138200
PX0255	TDK Corporation Annual Review 2008	LAMBETH-000213458	
PX0256	Press release entitled "Seagate Extends Lead in Capacity-Boosting Perpendicular Recording Technology - Surges Past 16 Million Mark in PMR Hard Drive Shipments" by Seagate, dated 2/5/2007	LAMBETH-000213507	
PX0257	Press release entitled "Seagate Wins PC Magazine's Annual Technical Excellence Award for 750GB Desktop Hard Drive, Perpendicular Recording Technology" by Seagate, dated 12/5/2006	LAMBETH-000213509	

PX #	Description	BatesBegin	BatesEnd
PX0258	Press release entitled "HITACHI ANNOUNCES CONSOLIDATED FINANCIAL RESULTS FOR THE THIRD QUARTER ENDED DECEMBER 31, 2005" by Hitachi, dated 12/31/2005	LAMBETH-000213510	
PX0259	Seagate Form 10-K For the fiscal year ended June 30, 2006	LAMBETH-000214441	
PX0260	CIT Faculty Annual Report for January 1- December 31, 2002	LAMBETH-000143371	LAMBETH-000143385
PX0261	CIT Faculty Annual Report for January 1- December 31, 2003	LAMBETH-000143545	LAMBETH-000143559
PX0262	CIT Faculty Annual Report for January 1- December 31, 2004	LAMBETH-000143560	LAMBETH-000143577
PX0263	CIT Faculty Annual Report for January 1- December 31, 2005	LAMBETH-000143578	LAMBETH-000143595
PX0264	CIT Faculty Annual Report for January 1- December 31, 2006	LAMBETH-000143596	LAMBETH-000143612
PX0265	CIT Faculty Annual Report for January 1- December 31, 2007	LAMBETH-000143613	LAMBETH-000143629
PX0266	CIT Faculty Annual Report for January 1- December 31, 2008	LAMBETH-000143630	LAMBETH-000143644
PX0267	CIT Faculty Annual Report for January 1- December 31, 2009	LAMBETH-000143645	LAMBETH-000143664
PX0268	Measurements for LS0909-6	LAMBETH-000037699	LAMBETH-000037699
PX0269	Measurements for 0909-6ab	LAMBETH-000042524	LAMBETH-000042576
PX0270	Measurements for D0001043	LAMBETH-000116912	LAMBETH-000116952
PX0271	Measurements for D0000171	LAMBETH-000121559	LAMBETH-000121605
PX0272	Measurements for D0000172	LAMBETH-000121607	LAMBETH-000121653
PX0273	Measurements for D0000173	LAMBETH-000121655	LAMBETH-000121701
PX0274	Measurements for D0000174	LAMBETH-000121703	LAMBETH-000121749
PX0275	Measurements for D0000175	LAMBETH-000121751	LAMBETH-000121797
PX0276	Measurements for D0000106	LAMBETH-000121816	LAMBETH-000121862
PX0277	Measurements for D0000107	LAMBETH-000121864	LAMBETH-000121910
PX0278	Measurements for D0000101	LAMBETH-000121920	LAMBETH-000121964
PX0279	Measurements for D0000102	LAMBETH-000121966	LAMBETH-000122010
PX0280	Measurements for D0000103	LAMBETH-000122012	LAMBETH-000122056
PX0281	Measurements for D0000104	LAMBETH-000122058	LAMBETH-000122102
PX0282	Measurements for D0000122	LAMBETH-000122118	LAMBETH-000122153
PX0283	Measurements for D0000120	LAMBETH-000122160	LAMBETH-000122194
PX0284	Measurements for D0000123	LAMBETH-000128366	LAMBETH-000128410
PX0285	Measurements for D0000124	LAMBETH-000128412	LAMBETH-000128456
PX0286	Measurements for D0000125	LAMBETH-000128458	LAMBETH-000128502
PX0287	Measurements for D0000126	LAMBETH-000128504	LAMBETH-000128548
PX0288	Measurements for D0000127	LAMBETH-000128550	LAMBETH-000128594
PX0289	Measurements for D0000128	LAMBETH-000128596	LAMBETH-000128640
PX0290	Measurements for LS1425_02cx_FPaflat500x10sen@125+5#13	LAMBETH-000149656	LAMBETH-000149656
PX0291	Memo dated 8/31/1999 from David Lambeth to Robert White, Pradeep Khosla, Anthony Rollet, and John Anderson RE: "Formal DSSC Resignation"	CMU1_002467	CMU1_002467
PX0292	Email dated 2/7/2000 from Bin Lu to David Lambeth re Visa letter	LAMBETH-000145032	LAMBETH-000145032
PX0293	Document entitled "Recent Progress in Media Research at CMU," by Jie Zou, David L. Laughlin, and David N. Lambeth	LAMBETH-000147872	LAMBETH-000147872
PX0294	Agreement entitled "CONSENT OF THE SOLE MEMBER OF SENS CRETE, LLC," between SensCrete and David Lambeth, dated 3/13/2014	LAMBETH-000150142	LAMBETH-000150142
PX0295	SensCrete-Lambeth Agreement Amendment, dated 3/14/2014	LAMBETH-000150144	LAMBETH-150147
PX0296	Amended and Restated Operating Agreement - Lambeth Magnetic Structures. LLC, dated March 18, 2014	LAMBETH-000150152	LAMBETH-150188
PX0297	Lambeth Magnetic Structures LLC Transfer David N Lambeth to Joel David Lambeth	LAMBETH-000150192	LAMBETH-150193
PX0298	Lambeth Magnetic Structures LLC Transfer David N Lambeth to Dawn Marie Lambeth	LAMBETH-000150326	LAMBETH-150327
PX0299	In-plane texture for uniaxial HMM Inv Disc	SEA01929561	SEA01929569
PX0300	Head Magnetic Materials for Seekers	SEA02042408	SEA02042429
PX0301	Presentation entitled "An Introduction to Perpendicular Writers" by Huaqing Yin and Jianhua Xue, dated 10/15/2012 - 9/22/2013	SEA03128955	SEA03129082
PX0302	Mutual Non-Disclosure Agreement between Acacia and Lambeth Systems	LAMBETH-KL-000193	LAMBETH-KL-000213
PX0303	CV of William A.T. Clark [8/16/2018 Deposition of William Clark, Ex. 3]		
PX0304	Document entitled "New HREM Images" dated 8/1/2018 [8/16/2018 Deposition of William Clark, Ex. 5]		
PX0305	Document entitled "Appendix 2, Microscope Operating Parameters" [8/16/2018 Deposition of William Clark, Ex. 6]		
PX0306	Diagram entitled "Seagate SBR8DK [sic]" [8/16/2018 Deposition of William Clark, Ex. 12]		
PX0307	Document entitled "S0GPPC - Figure 47" [8/16/2018 Deposition of William Clark, Ex. 13]		
PX0308	Document entitled "S0GPPC - Figure 49" [8/16/2018 Deposition of William Clark, Ex. 14]		
PX0309	Document entitled "S0GPPC microbeam diffraction" [8/16/2018 Deposition of William Clark, Ex. 15]		
PX0310	Document entitled "100 Random Numbers Between 1 and 1600" [8/16/2018 Deposition of William Clark, Ex. 16]		
PX0311	Document entitled "101 Random Numbers Between 1 and 1600" [8/16/2018 Deposition of William Clark, Ex. 17]		
PX0312	Document entitled "FFT Diffraction Patterns in Dr. Clark's Appendix C" [8/16/2018 Deposition of William Clark, Ex. 18]		
PX0313	Photograph entitled "Figure 2 of Clark Reply Report," dated 8/3/2018 [8/16/2018 Deposition of William Clark, Ex. 19]		

PX #	Description	BatesBegin	BatesEnd
PX0314	Book excerpt from "Interpretation of Electron Diffraction Patterns," by K.W. Andrews, D.J. Dyaon, and S.R. Keown, dated 1967	LAMBETH-000252598	LAMBETH-000252602
PX0315	Book excerpt from "The Science and Engineering of Materials," by D.R. Askeland and W.J. Wright, dated 2016	LAMBETH-000252613	LAMBETH-000252618
PX0316	Document entitled "Evaluation of misorientation angle-axis set between variants during transformation of bcc to hcp phase obeying Burgers orientation relation" by T.Karthikeyan, S.Saroja and M.Vijayalakshmi, Scripta Materialia, dated 4/17/2006	LAMBETH-000253566	LAMBETH-000253569
PX0317	Document entitled "The microstructure of dislocated martensitic steel: Theory", L. Qi, A.G. Khachatryan, and J.W. Morris, Jr., Acta Materialia, Vol. 76, dated 6/7/2014	LAMBETH-000254142	LAMBETH-000254158
PX0318	Book excerpt from "Materials Science and Engineering," by W.D. Callister and D.G. Rethwisch, dated 2014	LAMBETH-000254565	LAMBETH-000254570
PX0319	Document entitled "Materials Considered, Appendix A to Expert Report of William Allen Clark" dated 5/2/2018		
PX0320	Document entitled "William Allen Clark Curriculum Vitae, Appendix B to Expert Report of William Allen Clark" dated 5/2/2018		
PX0321	Document entitled "Dr. Clark Opening Report: Appendix C File Structure"		
PX0322	Document entitled "Expert Report of Dr. William Clark, Supplement to Appendix C," served 10/5/2018		
PX0323	Diffraction images for S0GPPC sample	LMS-SEA0004837	LMS-SEA0004838
PX0324	Diffraction images for S2MMMC sample	LMS-SEA0005453	LMS-SEA0007054
PX0325	Diffraction images for SBRD8K sample	LMS-SEA0007458	LMS-SEA0007797
PX0326	Additional Diffraction images for SBRD8K sample	LMS-SEA0007801	LMS-SEA0009064
PX0327	Document entitled "Electron Microscopy of Thin Crystals," by P.B. Hirsch, A. Howie, R.B. Nicholson, D.W. Pashley, and M.J. Whelan, dated 1965		
PX0328	Document entitled "Transmission Electron Microscopy," by D.B. Williams and C.B. Carter, dated 2009		
PX0329	Document entitled "Properties of Electrons, their Interactions with Matter and Applications in Electron Microscopy" by F. Krumeich, dated 6/4/2018 available at www.microscopy.ethz.ch.		
PX0330	Document entitled "Analysis of grain-boundary structure in Al-Cu interconnects," by D.P. Field, J.E. Sanchez, P.R. Besser, and D.J. Dingley, from Journal of Applied Phys., Vol. 82, dated 1997		
PX0331	Book excerpt entitled "The Analytical Theory of Heat," by J. B. Fourier, dated 1878		
PX0332	Document entitled "Appendix C to Expert Report of William Allen Clark" dated 5/2/2018		
PX0333	D.B.William and C. B.Carter, Transmission Electron Microscopy, (2009), p. 219		
PX0334	Appendix 1 - TEM Parameters, to Clark Reply Report		
PX0335	Zheng et al, Determination of the structure of α - β interfaces in β -Ti alloys, Acta Mat. 150 (2018).		
PX0336	D.B. Williams and C.B. Carter, Transmission Electron Microscopy.		
PX0337	LMS's Infringement Contentions (served on Toshiba on Oct. 9, 2015).		
PX0338	FEI Company, Application Note, High-resolution imaging on Cs-corrected Titan™ 80-300	LAMBETH-000310471	LAMBETH-000310478
PX0339	CEMAS - Center for Electron Microscopy and Analysis - the materials characterization hub for business and academia	LAMBETH-000310479	LAMBETH-000310490
PX0340	Center for Electron Microscopy and Analysis Brochure	LAMBETH-000310469	LAMBETH-000310470
PX0341	Bio of Kevin R. Coffey, Ph.D entitled "Appendix B" [8/17/2018 Deposition of Kevin Coffey, Ex. 2]		
PX0342	Diagram entitled "Seagate SBR8DK" [8/17/2018 Deposition of Kevin Coffey, Ex. 9]		
PX0343	Diagram entitled "Anisotropy Energy vs Angle, Broken Symmetry Polycrystalline BCC (110) Texture" [8/17/2018 Deposition of Kevin Coffey, Ex. 10]	LMS-SEA0015282	
PX0344	Chart of Bates Nos. [8/17/2018 Deposition of Kevin Coffey, Ex. 11]		
PX0345	Document entitled "Epitaxial Growth of Quad -Crystal Co -Alloy Magnetic Recording Media" by Heng Gong, Wei Yang, Maithri Rao, David Laughlin, and David Lambeth, dated 9/1999 [1/11/2017 Deposition of Kevin Coffey Vol. I, Ex. 9]	LAMBETH-000139949	LAMBETH-000139951
PX0346	Textbook Excerpt from "Physics of Ferromagnetism" by Soshin Chikazumi, published in 1997 [1/11/2017 Deposition of Kevin Coffey Vol. I, Ex. 11]	LAMBETH-000139929	LAMBETH-000139944
PX0347	Textbook Excerpt from "Introduction to Magnetic Materials" edited by Morris Cohen, published in 1972 [1/11/2017 Deposition of Kevin Coffey Vol. I, Ex. 12]	LAMBETH-000139920	LAMBETH-000139924
PX0348	European Patent Application No. 02 797 753.6 [1/11/2017 Deposition of Kevin Coffey Vol. I, Ex. 13]		
PX0349	European Patent Specification EP 1 435 091 B1 [1/13/2017 Deposition of Kevin Coffey Vol. II, Ex. 14]	TOSHIBA2203563	TOSHIBA2203618
PX0350	Book excerpt from "Materials Science of Thin Films" by Milton Ohring	LAMBETH-000139965	LAMBETH-000139969
PX0351	Book excerpt from "PHYSICAL METALLURGY PRINCIPLES" by Robert E. Reed-Hill & Reza Abbaschian, dated 1994	LAMBETH-000139970	LAMBETH-000139987
PX0352	Book excerpt from "THIN-FILM DEPOSITION PRINCIPLES AND PRACTICE" by Donald L. Smith, dated 1995.	LAMBETH-000140009	LAMBETH-000140016
PX0353	U.S. Patent No. 5,453,315	LAMBETH-000251740	LAMBETH-000251747
PX0354	U.S. Patent No. 5,483,025	LAMBETH-000251773	LAMBETH-000251778
PX0355	U.S. Patent No. 5,490,027	LAMBETH-000251779	LAMBETH-000251802
PX0356	U.S. Patent No. 5,557,488	LAMBETH-000251839	LAMBETH-000251859
PX0357	Document entitled "Structure and growth of crystalline superlattices: From monolayer to superlattice," by E. Bauer and Jan van der Merwe, from PHYS. REV. B, Vol. 33 no. 6, dated 8/28/1986	LAMBETH-000252638	LAMBETH-000252653
PX0358	Book excerpt from "FERROMAGNETISM," by Richard Bozorth, dated 2003	LAMBETH-000252665	LAMBETH-000252670
PX0359	Document entitled "Improved Torque Magnetometer," by Byrnes, W.S. and R.G. Crawford, from J. of Applied Physics, Vol. 29 dated 4/1958	LAMBETH-000252674	LAMBETH-000252676

PX #	Description	BatesBegin	BatesEnd
PX0360	Book excerpt entitled "Materials Science and Engineering: An introduction, 8th Edition," by W.D. Callister, Jr. and D. G. Rethwisch, dated 2010	LAMBETH-000252677	LAMBETH-000252730
PX0361	Book excerpt entitled "Physics of Ferromagnetism," by Soshin Chikazumi, dated 1997	LAMBETH-000252737	LAMBETH-000252755
PX0362	Document entitled "Magnetic Anisotropy and Magnetostriction of Ordered and Disordered Cobalt-Iron Alloys," by R.C. Hall, from Trans. of the Metallurgical Soc. of AIME, dated 4/1960	LAMBETH-000252756	LAMBETH-000252757
PX0363	Book excerpt from "INTRODUCTION TO MAGNETIC MATERIALS AND MAGNETIC RECORDING," by R.L. Comstock, dated 1997	LAMBETH-000252762	LAMBETH-000252766
PX0364	Book excerpt from "Elements of X-Ray Diffraction" by B. D. Cullity, dated 1972	LAMBETH-000252767	LAMBETH-000252772
PX0365	Book excerpt from "MAGNETIC RECORDING: THE FIRST 100 YEARS" by Eric D. Daniel, C. Denis Mee, and Mark H. Clark, dated 1999	LAMBETH-000252773	LAMBETH-000252780
PX0366	Book excerpt from "THIN FILM MATERIALS – STRESS, DEFECT FORMATION, AND SURFACE EVOLUTION," by L.B. Freund and S. Suresh, dated 2003	LAMBETH-000253344	LAMBETH-000253349
PX0367	Book excerpt from "INTRODUCTION TO FOCUSED ION BEAMS: INSTRUMENTATION, THEORY, TECHNIQUES AND PRACTICE," entitled "FIB Lift-out Specimen Preparation Techniques: Ex-Situ and In-Situ Methods," by Giannuzzi, L.A. Kempshall, B.W., and Lucille A. Giannuzzi, eds., dated 2005	LAMBETH-000253381	LAMBETH-000253382
PX0368	Document entitled "FIB Lift Out for Defect Analysis," by Giannuzzi, Lucille A., Brian W. Kempshall, et al. for Microelectronic Failure Analysis Desk Reference 2002 Supplement, dated 2002	LAMBETH-000253383	LAMBETH-000253389
PX0369	Document entitled "The Effect of the Order-Disorder Reaction on the Magnetic Anisotropy and Magnetostriction of Single Crystals of the Ferromagnetic Aluminum-Iron Alloys," by R.C. Hall, from Trans. of the Metallurgical Soc. Of AIME, dated 10/1958	LAMBETH-000253420	LAMBETH-000253425
PX0370	Book excerpt from "MAGNETIC DOMAINS: THE ANALYSIS OF MAGNETIC MICROSTRUCTURES," by Alex Hubert and Rudolf Schafer, dated 1998	LAMBETH-000253483	LAMBETH-000253486
PX0371	Document entitled "Micromagnetic analysis of thin-film elements (invited)," by Hubert, Alex and Manfred Rührig, from J. OF APPLIED PHYSICS, Vol. 69, dated 4/15/1991	LAMBETH-000253487	LAMBETH-000253492
PX0372	Document entitled "Practical FeCo Films for Perpendicular Write Pole," by Inturi, Venkateswara, et al., from IEEE Trans. on Magnetics, Vol. 48, dated 5/2012	LAMBETH-000253524	LAMBETH-000253528
PX0373	Document entitled "A microstructural observation of near-failure thermal barrier coating: a study by photostimulated luminescence spectroscopy and transmission electron microscopy," by Kempshall, B.W., et al., from Thin Solid Films, Vol. 466, dated 1/29/2004	LAMBETH-000253576	LAMBETH-000253584
PX0374	Document entitled "In-Situ Lift-Out FIB Specimen Preparation for TEM of Magnetic Materials," by Kempshall, B.W. and L.A. Giannuzzi, from Microsc. Microanal., Vol. 8, dated 2002	LAMBETH-000253585	LAMBETH-000253586
PX0375	Document entitled "On the Determination of Magnetocrystalline Anisotropy Constants from Torque Measurements," by Kouvel, J.S. and C.D. Graham, from J. of Applied Physics, Vol. 28, dated 9/21/1956	LAMBETH-000253609	LAMBETH-000253612
PX0376	Document entitled "Write Field Dynamics in the Presence of Antiferromagnetic Coupling of Writer Pole," by Zhanjie Li, et al., from IEEE Trans. on Magnetics, Vol. 49, dated 7/2013	LAMBETH-000253664	LAMBETH-000253667
PX0377	Document entitled "Degaussing of Write Heads in Perpendicular Magnetic Recording," by Livshitz, Boris and Jason S. Goldberg, from IEEE Trans. on Magnetics, Vol. 47, dated 10/2011	LAMBETH-000253676	LAMBETH-000253679
PX0378	Document entitled "Magnetic Domains of Permalloy Films for Magnetic Recording Thin Film Heads Observed by Spin-Polarized SEM," by Mitsuoka, K., et al., from IEEE TRANS. ON MAGNETICS, Vol. MAG-23, dated 9/1987	LAMBETH-000253697	LAMBETH-000253702
PX0379	Book excerpt from "MODERN MAGNETIC MATERIALS" by Robert C. O'Handley, dated 2000	LAMBETH-000253732	LAMBETH-000254117
PX0380	Document entitled "Simulation of Erase After Write on 2.4T FeCo Solid Pole Writer," by Patwari, Mohammed S. and R.H. Victora, from IEEE Trans. on Magnetics, Vol. 46, dated 5/2010	LAMBETH-000254125	LAMBETH-000254132
PX0381	Presentation (untitled) by Min Xiao, Daisuka Itoga, Roshini Das, Surbhi Bordia, dated 3/16/2015, available at https://www.slideshare.net/DiceltogaPMPITILFoun/4-campanile-seagatestrategy20150316	LAMBETH-000254240	LAMBETH-000254251
PX0382	Book excerpt from "MODERN PHYSICAL METALLURGY & MATERIALS ENGINEERING 6th edition" by R.E. Smallman & R.J. Bishop, dated 1962/1999	LAMBETH-000254370	LAMBETH-000254383
PX0383	Book excerpt from "MAGNETIC PROPERTIES OF MATERIALS," Ed. by Jan Smit, dated 1971	LAMBETH-000254384	LAMBETH-000254389
PX0384	Document entitled "Domain Theory Model for Magnetic Thin Films," by Neil Smith, from IEEE TRANS. ON MAGNETICS, Vol. 24, dated 11/1998	LAMBETH-000254390	LAMBETH-000254392
PX0385	Book excerpt entitled "MAGNETIC MATERIALS," by R.S. Tebble and D. J. Clark, dated 1969	LAMBETH-000254407	LAMBETH-000254413
PX0386	Document entitled "Effect of Magnetic Annealing on Plated Permalloy and Domain Configurations in Thin-Film Inductive Head," by Kao, Andrew S. and Prakash Kasiraj, from IEEE TRANS. ON MAGNETICS, Vol. 27, dated 11/1991	LAMBETH-000254427	LAMBETH-000254432
PX0387	Document entitled "Imaging the equilibrium state and magnetization dynamics of partially built hard disk write heads," R.A.J. Valkass, et al., from Applied Physics Letters, Vol. 106, dated 5/31/2015	LAMBETH-000254433	LAMBETH-000254436
PX0388	Document entitled "Epitaxy at {111}fcc/{110}bcc metal interfaces," by Van der Merwe and Braun, from APPLICATIONS OF SURFACE SCIENCE, Vol. 22/23, dated 10/31/1984	LAMBETH-000254437	LAMBETH-000254447
PX0389	Document entitled "Determination of the structure of α - β interfaces in metastable β -Ti alloys," by Zheng, et al., from ACTA MATERIALIA, dated 3/7/2018	LAMBETH-000254537	LAMBETH-000254551
PX0390	Datasheet entitled "MR HEAD DESIGN POINT FOR CHEETAH18LP DSMR PROGRAM," Design REV. A (06/02/98)	SEA00005722	SEA00005722
PX0391	Presentation entitled "Sonora WBR1.5: Lower and Upper Cores," by David Robinson	SEA00005801	SEA00005990
PX0392	Datasheet entitled "MR HEAD DESIGN POINT FOR CUDA 72 DSMR PROGRAM," Design Point REV. A (11/05/98)	SEA00006889	SEA00006889
PX0393	Presentation entitled "Writer Experiments," by Chris Rea and Lixin Jia, dated 11/04/03	SEA00018620	SEA00018633
PX0394	Presentation entitled "Head Design - Pioneer" by Seagate, dated 8/8/2003	SEA00019251	SEA00019263
PX0395	Presentation entitled "Soft Magnetic Materials Characterization" by M.T. Kief, Seagate Technology	SEA00019292	SEA00019307

PX #	Description	BatesBegin	BatesEnd
PX0396	Presentation entitled "Pioneer TP Material Development" by Venkat Inturi and Mark Kief, dated 2/17/2003	SEA00019533	SEA00019557
PX0397	Presentation entitled "Perpendicular Overview" by Seagate	SEA00027604	SEA00027668
PX0398	Spreadsheet entitled "MPlus Info Tables WP1 WP Anneal.xls"	SEA00027727	SEA00027727
PX0399	Spreadsheet entitled "MakaraPlusRoute_FB_1F23C32SX530.xls"	SEA00027728	SEA00027728
PX0400	Spreadsheet entitled "GrenadaBP_WPDepAnneal_Info_Table.xls"	SEA00027729	SEA00027729
PX0401	Spreadsheet entitled "GrenadaBP_Wafer_Build_Route.xls"	SEA00027730	SEA00027730
PX0402	Spreadsheet entitled "Boulder Route (CH).xls"	SEA00027731	SEA00027731
PX0403	Presentation entitled "Overview of WP Dep/Metrology," by Dehua Han, Christoph Mathiew, Brian Sabo, Nikki Price and Mike Tang, dated 9/6/05	SEA00027888	SEA00027916
PX0404	Presentation entitled [REDACTED] by Kevin Heim, dated January 9, 2008	SEA00027948	SEA00027995
PX0405	Sequence entitled "WP1_Grenada_Sequence.jpg"	SEA00028029	SEA00028029
PX0406	Sequence entitled "WP_Grenada_Sequence.jpg"	SEA00028030	SEA00028030
PX0407	Sequence entitled "Etch_Module_recipe.jpg"	SEA00028033	SEA00028033
PX0408	Document entitled "MR Head Design Point for CHEETAH18LP DSMR Program" by C.D. Potter, Seagate, dated 6/2/1998	SEA00031189	SEA00031189
PX0409	Document entitled "Head Design Point for Firefly" by Neill Johnson, Seagate, dated 2/14/2008	SEA00032631	SEA00032632
PX0410	Document entitled "MR Head Design Point for CHEETAH 36LP DSMR Program" by C.D. Potter, Seagate, dated 10/14/1998	SEA00041404	SEA00041404
PX0411	Document entitled "MR Head Design Point for CUDA 72 DSMR Program" by C.D. Potter, Seagate, dated 11/5/1998	SEA00047687	SEA00047687
PX0412	Presentation entitled "Future Plans for WP materials," by Venkat Inturi	SEA00063573	SEA00063579
PX0413	Presentation entitled "High Hk Bottom Layer," by Eric Meloche and J. Xue, dated March 1st, 2011	SEA00063829	SEA00063844
PX0414	Presentation entitled "SMR Media Performance and Testing Improvement" by Wen Jiang, Seagate, dated 10/2013	SEA00364752	SEA00364790
PX0415	Presentation entitled "Head Design" by Seagate	SEA00380325	SEA00380340
PX0416	Presentation entitled "EAW Materials Update" by Venkat Inturi, Huaqing Yin, and Wei Tian	SEA00409798	SEA00409824
PX0417	Presentation entitled "Industry Perspective HDD Technology" by Tom Yamashita, dated 11/18/1993	SEA00506290	SEA00506338
PX0418	Presentation entitled "What is a Disk Drive?" by Seagate	SEA00511853	SEA00511881
PX0419	Presentation entitled "WP CTQs and Next Generation WP Tool Needs" by Venkat Inturi, dated 12/14/2016	SEA00514761	SEA00514795
PX0420	Presentation entitled "WP CTQs and Next Generation WP Tool Needs" by Venkat Inturi, Huaqing Yin, Wei Tian, dated 12/14/2016	SEA00514796	SEA00514831
PX0421	Presentation entitled "Recording Fundamentals," by Nathan Curland, dated 2012	SEA00521626	SEA00521670
PX0422	Document entitled "MR Head Design Point for CUDA 72 DSMR Program" by C.D. Potter, dated 11/05/1998	SEA00544239	SEA00544239
PX0423	Document entitled "MR Head Design Point for CHEETAH18LP DSMR Program" by C.D. Potter, dated 06/02/1998	SEA00544259	SEA00544259
PX0424	Document entitled "MR Head Design Point for CHEETAH 36LP DSMR Program" by C.D. Potter, dated 10/14/1998	SEA00544263	SEA00544263
PX0425	Document entitled "MR Head Design Point for FIREFLY" by Neill Johnson, dated 2/14/2008	SEA00544357	SEA00544358
PX0426	Presentation entitled "Makara PTA (Ramp) Phase Review" by RHO Core Team, dated 10/08/2014	SEA00549076	SEA00549139
PX0427	Spreadsheet entitled "Makara_plus_r2.xlsx"	SEA00726645	SEA00726645
PX0428	Spreadsheet entitled "Makara_R3.xlsx"	SEA00753693	SEA00753693
PX0429	Spreadsheet entitled "Makara_plus_r2.xlsx"	SEA00832568	SEA00832568
PX0430	Presentation entitled "Venus WBR1.5 - Al2O3 Laminated Writer Pole Deposition" by TDT Vacuum, dated 7/15/2005	SEA01002392	SEA01002443
PX0431	Presentation entitled "Overview of Al2O3 Laminated WP Dep" by TDT Vacuum, dated 9/6/2005	SEA01002952	SEA01003016
PX0432	Presentation entitled "Overview of WP Dep/Metrology" by Dehua Han, Christoph Mathiew, Brian Sabo, Nikki Price, and Mike Tang, dated 9/6/2005	SEA01003100	SEA01003128
PX0433	Manual entitled "The Rigid Disk Media & Substrate Information Service, 2008 Annual Study" (pages 1-28), dated 4/2008	SEA01017440	SEA01017461
PX0434	Manual entitled "The Rigid Disk Media & Substrate Information Service, 2008 Annual Study" (pages 29-72), dated 4/2008	SEA01017462	SEA01017483
PX0435	Manual entitled "The Rigid Disk Media & Substrate Information Service, 2008 Annual Study" (pages 73-116), dated 4/2008	SEA01017514	SEA01017535
PX0436	Document entitled "Uniaxial HMM via an in-plane texture and/or correlated roughness" by Michael Seigler, Kalman Pelhos, Timothy Klemmer and Kevin Minor	SEA01045215	SEA01045223
PX0437	Presentation entitled "PDT Equipment Review Al2O3 Laminated Writer Pole" by Dehua Han and Mike Tang, dated 3/22/2005	SEA01046650	SEA01046682
PX0438	Presentation entitled "Venus WBR1.5 - Al2O3 Laminated Writer Pole Deposition" by TDT Vacuum, dated 7/15/2005	SEA01047583	SEA01047634
PX0439	Presentation entitled "Improvement of Process capability for Write Pole Coercivity (Hch)," by James Alcorn	SEA01047774	SEA01047831
PX0440	Presentation entitled "Overview of Al2O3 Laminated WP Dep," by TDT Vacuum, dated 9/6/2005	SEA01047875	SEA01047939
PX0441	Presentation entitled "Gradient Writer Pole + No-YOKE -- For Optimizing Writability and Erasure" by Dehua Han, Chris Rea, Jianhua Xue and Mike Tang, dated 6/12/2005	SEA01047941	SEA01047961
PX0442	Presentation entitled "Overview of WP Dep/Metrology," by Dehua Han, Christoph Mathiew, Brian Sabo, Nikki Price and Mike Tang, dated 9/6/2005	SEA01047969	SEA01047997
PX0443	Presentation entitled "Laminated Write Pole Deposition"	SEA01048149	SEA01048150
PX0444	Presentation entitled "Perpendicular Overview"	SEA01048842	SEA01048906

PX #	Description	BatesBegin	BatesEnd
PX0445	Presentation entitled "Coercivity Control For Perpendicular Write Pole" by Dehua Han	SEA01048910	SEA01048971
PX0446	Presentation entitled "Review for WP Experiments & Dep/Metrology" by TDT, dated 3/18/2006	SEA01048975	SEA01049045
PX0447	Presentation entitled "Overview of Al2O3 Laminated WP Dep" by TDT Vacuum, dated 9/6/2005	SEA01049128	SEA01049192
PX0448	Presentation entitled "Hybrid WP for Eliminating EAW — Sheet film magnetics and in-room data" by Dehua Han and Mike Tang, dated 14/4/2006	SEA01050575	SEA01050583
PX0449	Presentation entitled "Hybrid Writer Pole — Address EAW and BER" by Dehua Han, Mike Tang, Lixin Jia, Pu-Ling Lu and Peter Czoschke, dated 1/8/2007	SEA01050622	SEA01050651
PX0450	Presentation entitled "Laminated Write Pole Deposition"	SEA01050944	SEA01050946
PX0451	Presentation entitled "WP VD Hc h/ Failures" by Matt Hadley and Brown Belt	SEA01051149	SEA01051255
PX0452	Presentation entitled "WP VD Hc h/ S1 Failures" by Matt Hadley and Brown Belt	SEA01051670	SEA01051777
PX0453	Presentation entitled "High and Variable Hk experiments- Solid pole" by Chris Rea, Dehua Han, and Venkat Inturi, dated 4/10/2007	SEA01051913	SEA01051949
PX0454	Memo dated 2005, entitled "Fortnightly Highlights FW0546" from Venkat Inturi to Mark Kief	SEA01052139	SEA01052142
PX0455	Presentation entitled "MakaraBP 6T/4T/3T/2T/1TB SAD Declare," by MakaraPlus/BP Core Team, dated April 22, 2016	SEA01109636	SEA01109691
PX0456	Email dated 9/13/2016 from Jon C Nida to Andrew Hakanson et al., RE: "Fwd: MakaraBP 5xxN Qualification is Complete for EMC's Avamar (CTD)"	SEA01125620	SEA01125621
PX0457	Document entitled "Practical FeCo Films for Perpendicular Writer Pole" by Venkateswara Inturi, Huaqing Yin, Mark Kief, Matthew Hadley, and Christoph Mathieu, dated 2011	SEA01134746	SEA01134750
PX0458	Document entitled "Within Wafer Magnetic Anisotropy in Sputtered FeCo Films" by Matthew J. Hadley, Christoph Mathieu, and Venkateswara R. Inturi	SEA01134854	SEA01134856
PX0459	Document entitled "Within wafer magnetic anisotropy in sputtered FeCo films" from Journal of Applied Physics Vol. 103, dated 1/28/2008	SEA01134932	SEA01134937
PX0460	Email dated 10/17/2004, entitled "New Sales Leadership Roles for John Vossoughi and B.S. Teh" from Inside Seagate to Huaqing Yin	SEA01146788	SEA01146789
PX0461	Spreadsheet entitled "Makara plus r2.xlsx"	SEA01319022	SEA01319022
PX0462	Document entitled "Head Design Point for VENUS" by Kevin Heim and Mohammed Patwari	SEA01417777	SEA01417777
PX0463	Presentation entitled "Perpendicular Magnetic Recording and Other New Technologies Drive Capital Spending," by Thomas Coughlin, dated 2006	SEA01423163	SEA01423202
PX0464	Presentation entitled "Opportunities and Challenges for Higher Density Recording," by Amine Hajji, dated 12/7/2006	SEA01423269	SEA01423279
PX0465	Presentation entitled "Issue of Al2O3 Laminated WP Dep"	SEA01424718	SEA01424741
PX0466	Document entitled "Discrete Track Media Adoption in HDDs : Significant Cost and Process Changes, But Just Around the Corner," by Jeff Janukowicz and John Rydning, dated 9/2008	SEA01470620	SEA01470654
PX0467	Presentation entitled "WP Related Exp"	SEA01475828	SEA01475867
PX0468	Presentation entitled "Head Design Point for VENUS"	SEA01482300	SEA01482301
PX0469	Presentation entitled "Head Design Point for VENUS"	SEA01482302	SEA01482303
PX0470	Presentation entitled "Pole material questions — lead in" by Chris Rea, dated 1/14/2010	SEA01525359	SEA01525388
PX0471	Presentation entitled "Pole material questions"	SEA01530084	SEA01530094
PX0472	Presentation entitled "WP Experiments to Mitigate EAW (config meeting FW1051)" by Venkat Inturi and Huaqing Yin	SEA01543279	SEA01543285
PX0473	Presentation entitled "WP materials for EAW (TTM meeting)" by Venkat Inturi and Kevin Heim, dated 12/19/2016	SEA01551323	SEA01551347
PX0474	Presentation entitled "RHO EAW Team" by Yonghua Chen, dated 2/24/2011	SEA01571477	SEA01571500
PX0475	Presentation entitled "Writer Modeling Highlights" dated 8/4/2011	SEA01578826	SEA01578838
PX0476	Memo entitled "Fortnightly Highlights FW0234" from Venkat Inturi to Mark Kief	SEA01930146	SEA01930148
PX0477	Presentation entitled "HMM Material Update" by Venkat Inturi and Mark Kief, dated 5/17/2001	SEA01931595	SEA01931602
PX0478	Presentation entitled "Laminated Seed Layer Readiness for Manufacturing" by Venkat Inturi, dated 2/17/2003	SEA01937388	SEA01937397
PX0479	Presentation entitled "Soft Magnetic Materials Characterization" by M.T. Kief	SEA01941843	SEA01941858
PX0480	Presentation entitled "Pioneer TP Material Development" by Venkat Inturi, dated 2/17/2003	SEA01942468	SEA01942492
PX0481	Presentation entitled "Writer Experiments on Perpendicular Heads - Verification of CTQs" by Venkat Inturi and Mark Kief	SEA01947595	SEA01947616
PX0482	Presentation entitled "Venus WBR1.5 - Al2O3 Laminated Writer Pole Deposition" by TDT Vacuum, dated 7/15/2005	SEA01963023	SEA01963074
PX0483	Presentation entitled "Materials/ Structures for High Areal Density Write Poles" by K. Minor, T. Klemmer, T. Ambrose, M. Seigler, and O. Mryasov NWU-M. Kim and A. Freeman, dated 11/3/2003	SEA01963227	SEA01963268
PX0484	Presentation entitled "Overview of Al2O3 Laminated WP Dep" by TDT Vacuum, dated 9/6/2005	SEA01964934	SEA01964998
PX0485	Presentation entitled "Recent Progress in Electroplating of Laminated Writer" by Mark Kief, Ming Sun, Ibro Tabakovic, Steve Riemer, John Hawkins, and John Rice	SEA01973492	SEA01973530
PX0486	G. Herzer, "Grain size dependence of coercivity and permeability in nanocrystalline ferromagnets," IEEE Transactions on Magnetics, vol. 26, no. 5, dated 9/1990	SEA01974948	SEA01974953
PX0487	Presentation entitled "Impact of WP Material Properties on EAW" by Dehua Han, Chris Rea, Lixin Jia, and Mike Tang, dated 10/28/2006	SEA01977699	SEA01977765
PX0488	Presentation entitled "High Hk films and their usefulness to Seagate" by Venkat Inturi and Mark Kief	SEA01980143	SEA01980171
PX0489	Presentation entitled "Materials/Structures for High Areal Density Write Poles," by Seagate Research- Pittsburgh, PA K. Minor, T. Klemmer, T. Ambrose, M. Seigler, and O. Mryasov NWU-M. Kim and A. Freeman, dated 11/3/2003	SEA01985058	SEA01985099
PX0490	Document entitled "High Magnetic Saturation Poles for Advanced Perpendicular Writers" by Mark Kief, Venkat Inturi, Mourad Benakli, Ibro Tabakovic, Ming Sun, Olle Heinonen, Steve Riemer, Vladyslav Vas'ko	SEA01986461	SEA01986471

PX #	Description	BatesBegin	BatesEnd
PX0491	Document entitled "Studies on Magnetic Anisotropy Dispersion in FeCo Films" by Christoph Mathieu, Venkateswara R.Inturi, and Matthew Hadley	SEA01991054	SEA01991059
PX0492	Document entitled "Studies on magnetic Anisotropy in IBD Oblique FeCo and NiFe films" by Venkateswara R.Inturi, Mark Kief, and Christoph Mathieu	SEA01991416	SEA01991421
PX0493	Document entitled "Studies on Magnetic Anisotropy Dispersion in FeCo Films" by Christoph Mathieu, Venkateswara R.Inturi, and Matthew Hadley	SEA01993371	SEA01993376
PX0494	Presentation entitled "WP Experiments to Mitigate EAW (Config. Meeting FW1051)" by Venkat Inturi and Huaqing Yin	SEA02023090	SEA02023096
PX0495	Presentation entitled "WP materials for EAW (TTM meeting)" by Venkat Inturi and Kevin Heim	SEA02026479	SEA02026530
PX0496	Document entitled "PRACTICAL FeCo FILMS FOR PERPENDICULAR WRITER POLE" by Venkateswara INTURI, Huangqing YIN, Mark KIEF, Matthew HADLEY, and Christoph MATHIEU, dated 2011	SEA02033892	SEA02033897
PX0497	Presentation entitled "Head Magnetic Layers for Outside Seekers" by Venkat Inturi et al., dated 2010	SEA02043168	SEA02043198
PX0498	Presentation entitled "WP Materials Experiment" by Venkat Inturi	SEA02045393	SEA02045420
PX0499	Presentation entitled "MFM Paddle Domain Images of Different Yoke/WP materials" by Yonghang Pei, Venkat Inturi, Christoph Mathieu, Xuelian Xu, and Joe Mundena, dated 9/16/2013	SEA02048769	SEA02048785
PX0500	Presentation entitled "Overview of WP Dep/Metrology" by Dehua Han, Christoph Mathieu, Brian Sabo, Nikki Price and Mike Tang, dated 9/6/2005	SEA02060276	SEA02060304
PX0501	Agreement entitled "Pre-Publication Approval Form" for technical papers, speeches, monographs and articles" by Seagate, signed by Christoph Mathieu, Sheryl Schroeder, and Kenneth Allen, dated 6/22/2007	SEA02064462	SEA02064473
PX0502	Presentation entitled "Magnetic Annealing of 2.4T CoFe Alloy" by Ibro Tabakovic, Venkat Inturi, and Manish Chander, dated 12/2002	SEA02066314	SEA02066323
PX0503	Document entitled "Within Wafer Magnetic Anisotropy in Sputtered FeCo Films" by Matthew J. Hadley, Christoph Mathieu, and Venkateswara R. Inturi	SEA02075274	SEA02075276
PX0504	Presentation entitled "Electrodeposition of 2.4T CoFe Films," dated November 2003	SEA02078700	SEA02079095
PX0505	Document entitled "High Magnetic Saturation Poles for Advanced Perpendicular Writers" IEEE Transactions on Magnetics, Vol. 44, by Mark T. Kief, Venkat Inturi, Mourad Benakli, Tbro Tabakovic, Ming Sun, Olle Heinonen, Steve Riemer, and Vladyslav Vas'ko, dated 5/18/2007	SEA02136396	SEA02136401
PX0506	Draft manuscript entitled "Within Wafer Magnetic Anisotropy in Sputtered FeCo Films" by Matthew J. Hadley, Christoph Mathieu, and Venkateswara R. Inturi, dated 4/1/2008	SEA02303156	SEA02303164
PX0507	Document entitled "High Magnetic Saturation Poles for Advanced Perpendicular Writers" IEEE Transactions on Magnetics, Vol. 44, by Kief, Inturi, Benakli, Tabakovic, Sun, Heinonen, Riemer, and Vas'ko, dated 5/18/2007	SEA02305544	SEA02305549
PX0508	Presentation entitled "Seagate Technology Recording Head Operations welcomes Unaxis," dated 4/20/2006	SEA02372422	SEA02372448
PX0509	Presentation entitled "Seagate - Veeco Roadmap Review," by M.T. Kief, dated 11/14/2006	SEA02372976	SEA02373012
PX0510	Manual entitled "TRENDFOCUS: The Rigid Disk Media & Substrate Information Service, 2008 Annual Study" dated 2008	SEA02374480	SEA02374502
PX0511	Presentation entitled "200mm WP VD Tool Selection," by Matt Hadley	SEA02382477	SEA02382507
PX0512	Presentation entitled "PMR Technology: Demonstration to Product Reality," by Francis Liu, dated 12/7/2006	SEA02401000	SEA02401015
PX0513	Presentation entitled "Things that I am involved with"	SEA02530958	SEA02530986
PX0514	Presentation entitled "Wyspin to Ucanoe: A History of GMR Writers," by LPD dated October 7, 2003	SEA02532008	SEA02532055
PX0515	Presentation entitled "New Solutions for Changing Times," by Mike Covault, dated 9/2004	SEA02534719	SEA02534759
PX0516	Presentation entitled "ATD Roadmap Meeting: Competitive Analysis," dated 2/2006	SEA02545926	SEA02545968
PX0517	Presentation entitled "High Magnetic Saturation Poles for Advanced Perpendicular Writers," by Mark T. Kief, Venkat Inturi, Mourad Benakli, Ibro Tabakovic, Ming Sun, Olle Heinonen, Steve Riemer, and Vladyslav Vas'ko, dated 5/21/2007	SEA02549816	SEA02549848
PX0518	Document entitled "Magnetic Anisotropy Dispersion in FeCo Films" by Christoph Mathieu, Venkateswara R.Inturi, and Matthew Hadley	SEA02550841	SEA02550847
PX0519	Email dated 3/21/2017 from Eric Meloche to Inturi Venkateswara RE: "Easy-axis direction"	SEA02582218	SEA02582223
PX0520	Presentation entitled "Easy-axis direction - EAW"	SEA02582224	SEA02582225
PX0521	Presentation entitled "EAW Materials Update," by Venkat Inturi, Huangqing Yin, Wei Tian	SEA02588509	SEA02588535
PX0522	Document entitled "Magnetic Anisotropy Dispersion in FeCo Films" by Christoph Mathieu, Venkateswara R. Inturi, and Matthew J. Hadley dated 4/2008	SEA02726202	SEA02726205
PX0523	Presentation entitled "Seagate - Industry Overview," by Mark H. Kryder, dated 10/2006	SEA02851751	SEA02851751
PX0524	Presentation entitled "Disc Drive Basics" by Henry John Hein, dated 8/2007	SEA03019481	SEA03019625
PX0525	Presentation entitled "Wednesday Conference session 5, Perpendicular Recording: Innovation Achieved, Implications for a New Era of Hard Disk Drive Technology," by Scott Maccabe, dated 9/21/2005	SEA03140770	SEA03140826
PX0526	Presentation entitled "Perpendicular Writer Roadmap," by Jianhua Xue, Mark Gubbins, and Huaqing Yin, dated 2/21/2013	SEA03143770	SEA03143770
PX0527	Document entitled "CDE ResMap 168 4-Point Probe Revision: AD" dated 5/25/2017	SEA03148705	SEA03148726
PX0528	Spreadsheet entitled [REDACTED]	SEA03148728	SEA03148728
PX0529	Document entitled "MESA Looper Process & Qual" dated 5/22/2017	SEA03148729	SEA03148744
PX0530	Document entitled "Metapulse Measure" dated 11/24/2015	SEA03148745	SEA03148766
PX0531	Document entitled "Mokem Measurements" dated 1/8/2016	SEA03148767	SEA03148784
PX0532	WP - Etch module [REDACTED]	SEA03148847	SEA03148847
PX0533	WP - FeCo module page 1 [REDACTED]	SEA03148848	SEA03148848
PX0534	WP - FeCo module page 1 [REDACTED]	SEA03148849	SEA03148849
PX0535	WP - FeCo module page 2 - [REDACTED]	SEA03148850	SEA03148850
PX0536	Spreadsheet entitled "D7 Miller Analysis.xlsx"	SEA03148856	SEA03148856
PX0537	Spreadsheet entitled "Lamar Ramburg analysis.xlsx"	SEA03148858	SEA03148858
PX0538	Spreadsheet entitled "Mobula K9 Ramburg Analysis and Actions 8-14-17.xlsx"	SEA03148860	SEA03148860

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PX0539	Document entitled "CDE ResMap 168 4-Point Probe" dated 5/25/2017	SEA03336370	SEA03336403
PX0540	Document entitled "Metapulse Measure" dated 11/24/2015	SEA03336422	SEA03336443
PX0541	U.S. Patent No. 4,949,039	SEA03348389	SEA03348395
PX0542	Document entitled "THIN FILMS" by S. Middelhoeck		
PX0543	Document entitled "Seagate's 1st Supplemental Response to LMS's 2nd Set of Interrogatories," dated May 16, 2017	LAMBETH-000231135	LAMBETH-000231155
PX0544	Seagate's Responses to LMS's Interrogatory No. 7, served August 2, 2017,	LAMBETH-000245112	LAMBETH-000245132
PX0545	Webpage, available at http://www.hammerdrive.com/assets/uploads/downloads/drive-selector/VIDEO%202.5%20HDD.pdf		
PX0546	Document entitled "Data Sheet - Momentus 7200.2" by Seagate dated 2007, available at https://www.seagate.com/files/docs/pdf/datasheet/disc/ds_momentus_7200_2.pdf		
PX0547	Document entitled "Enterprise Capacity 3.5 HDD (Helium)" by Seagate dated 2017, available at https://www.seagate.com/www-content/datasheets/pdfs/ent-cap-3-5-hdd-12tb-v7DS1925-1M-1703US-en_US.pdf		
PX0548	Webpage, available at https://www.seagate.com/www-content/datasheets/pdfs/game-drive-for-psdsg-migDS1898-2-1608-WW-en_CA.pdf		
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PX0550	Document entitled "Mobile HDD" by Seagate, dated 2016, available at https://www.seagate.com/www-content/datasheets/pdfs/mobile-hddDS1861-2-1603-en_US.pdf		
PX0551	Webpage, available at https://www.seagate.com/www-content/productcontent/barracuda-fam/barracuda-new/files/barracuda-ds-1900-3-1608us.pdf		
PX0552	Webpage, available at https://www.seagate.com/www-content/product-content/hdd-fam/seagate-archive-hdd/enus/docs/archive-hdd-ds1834-5c-1308us.pdf		
PX0553	Document entitled "Business Storage 8-Bay Rackmount NAS" by Seagate, dated 2013, available at https://www.seagate.com/www-content/product-content/seagate-business-fam/business-storage-8-bay-rackmount-nas/en-us/docs/business-storage-8-bay-rackmount-nas-ds1799-1-1307us.pdf		
PX0554	Document entitled "Skyhawk Surveillance 3.5 HDD Data Sheet" by Seagate, dated 2016, available at https://www.seagate.com/www-content/product-content/skyhawk/files/skyhawk-ds-1902-3-1608us.pdf		
PX0555	Webpage, available at https://www.seagate.com/www-content/product-content/video_3_5_pipeline-fam/pipeline-hd/enus/docs/video3-5-hdd-ds1783-3-1309us.pdf		
PX0556	Webpage entitled "Where to Buy," available at http://wheretobuy.seagate.com/?language=en-us		
PX0557	Advertisement entitled "Cello" by Havas for Seagate, dated 2014, available at http://www.adsoftheworld.com/media/print/seagate_cello		
PX0558	Advertisement entitled "Popcorn" by Havas for Seagate, dated 2014, available at http://www.adsoftheworld.com/media/print/seagate_popcorn		
PX0559	Webpage entitled "External Drive Seagate US" available at https://www.seagate.com/consumer/		
PX0560	Webpage entitled "External Hard Drives Seagate US" available at https://www.seagate.com/consumer/backup/		
PX0561	Webpage entitled "PC, Xbox One, PS4 External Hard Drives & SSD's Seagate US" available at https://www.seagate.com/consumer/play/		
PX0562	Webpage entitled "Internal Hard Drives Upgrade Seagate US" available at https://www.seagate.com/consumer/upgrade/		
PX0563	Webpage entitled "Internal Hard Drives Seagate US" available at https://www.seagate.com/internal-hard-drives/hdd/		
PX0564	Webpage, available at https://www.seagate.com/internal-harddrives/creative-professionals/		
PX0565	Webpage entitled "Enterprise Storage - Hard Drives & Solid State Drives (SSD) Seagate US" available at https://www.seagate.com/enterprise-storage/		
PX0566	Webpage entitled "Our Story" by Seagate, available at https://www.seagate.com/our-story/brand/		
PX0567	Webpage, available at https://www.waybackmachine.org/web/20130315141757/http://www.seagate.com/internal-harddrives/desktop-hard-drives/desktop-hdd/		
PX0568	Video entitled "Seagate Technology - Momentus XT" uploaded by Seagate Technology on 6/20/2011, available at https://www.youtube.com/watch?v=u22-XLej6Y		
PX0569	Video Entitled "The Gentlemen's Expo 2013 with Seagate" uploaded by Newegg Studios on 11/23/2013, available at https://www.youtube.com/watch?v=18d8BnIXC1g		
PX0570	Video entitled "Seagate: Barracuda Drive, the Power of One" uploaded by Seagate Technology on 10/26/2011, available at https://www.youtube.com/watch?v=cX329JK3iz8		
PX0571	Video entitled "IronWolf, the power of agility in NAS" uploaded by Seagate Technology on 7/18/2016, available at https://www.youtube.com/watch?v=DaYpYk0kVpQ		
PX0572	Video entitled "Seagate NAS Pro - at CES 2015 with Mark Song" uploaded by Seagate Technology on 1/7/2015, available at https://www.youtube.com/watch?v=dX6ZbvJRBdc		
PX0573	Video entitled "Seagate @SC15" uploaded by HPCwire on 11/20/2015, available at https://www.youtube.com/watch?v=frNc8FqmyXo		
PX0574	Video entitled "Seagate Barracuda - The Power of One" uploaded by Seagate Technology on 11/6/2012, available at https://www.youtube.com/watch?v=1ljeM3b5zvQ		
PX0575	Video entitled "IFSEC 2017 SkyHawk Show Highlights (Long Version)" uploaded by Seagate Technology on 7/14/2017, available at https://www.youtube.com/watch?v=y4glYAbVQA8		
PX0576	Document entitled "Seagate's Response to Interrogatory No. 14," dated 12/11/2017	SEA03336364	
PX0577	Document entitled "Seagate's 2nd Supplemental Response to LMS's 1st Set of Interrogatories," dated November 11, 2016	LAMBETH-000230397	LAMBETH-000230743

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PX0578	Document entitled "Investigation of structural and magnetic properties of Ni, NiFe and NiFe ₂ O ₄ thin films," from Journal of Magnetism and Magnetic Materials Vol. 324, by Jitendra Singh, Sanjeev K. Gupta, Arvind K. Singh, Prateek Kothari, R. K. Kotnala, J. Akhtar, dated 2012		
PX0579	Document entitled "Appendix D to 5/2/2018 Expert Report of Kevin Coffey"		
PX0580	Document entitled "Appendix E to 5/2/2018 Expert Report of Kevin Coffey"		
PX0581	Document entitled "Appendix F to 5/2/2018 Expert Report of Kevin Coffey, containing Dr. Clark's raw data, as provided to Kevin Coffey"		
PX0582	Document entitled "Appendix G to 5/2/2018 Expert Report of Kevin Coffey"		
PX0583	Document entitled "Appendix H to 5/2/2018 Expert Report of Kevin Coffey"		
PX0584	Document entitled "Appendix I to 5/2/2018 Expert Report of Kevin Coffey"		
PX0585	Document entitled "Magnetic Anisotropy Dispersion in FeCo Films," by Mathieu et al., from IEEE Transactions on Magnetics, Vol. 44, no. 4, dated 4/2008	SEA01974948	
PX0586	Document entitled "Within wafer magnetic anisotropy in sputtered FeCo films," by Mathieu, et al., from J. App. Physics, Vol. 103, no. 07E715, dated 2008		
PX0587	Document entitled "Single Crystal Anisotropy and Magnetostriction Constants of Several Ferromagnetic Materials Including Alloys of NiFe, SiFe, AlFe, CoNi, and CoFe," by R.C. Hall, from J. of Applied Physics, 30, dated 1959		
PX0588	Document entitled "Materials Considered, Appendix A to Expert Report of Kevin Coffey" dated 5/2/2018		
PX0589	Document entitled "Kevin R. Coffey Curriculum Vitae, Appendix B to 5/2/2018 Expert Report of Kevin Coffey"		
PX0590	Document entitled "Publications and Patents authored by Kevin Coffey, Appendix C to Expert Report of Kevin Coffey" dated 5/2/2018		
PX0591	Document entitled "Additional Documents and Materials Considered by Dr. Kevin Coffey, Appendix J to Reply Expert Report of Kevin Coffey," dated 8/3/2018		
PX0592	Fe (Iron) Binary Alloy Phase Diagrams, ASM HANDBOOK, ASM International, Alloy Phase Diagrams, 2016		
PX0593	Report entitled "MFM characterization of top poles on product wafers" by Venkat Inturi, Mark Kief, Taras Pokhil and Yan Liu, dated 2003	SEA01941041	SEA01941051
PX0594	Kao and Kasiraj, IEEE Trans. Mag., vol. 27, 1991, "Effect of Magnetic Annealing on Plated Permalloy and Domain Configurations in Thin-Film Inductive Head"	SEA02075177	SEA02075182
PX0595	J.M.C. Coey, MAGNETISM AND MAGNETIC MATERIALS.		
PX0596	Muhge et al., "Structural and magnetic studies of FeCo _{1-x} (OO1) alloy films on MgO (001) substrates," Journal of Applied Physics, Vol. 77, 1995		
PX0597	Webpage entitled "Specialized Internal Hard Drives" from Seagate, available at https://www.seagate.com/internal-hard-drives/ .		
PX0598	Co (Cobalt) Binary Alloy Phase Diagrams, ASM HANDBOOK, ASM International, Alloy Phase Diagrams, Vol. 3, 2016		
PX0599	Bauer and van der Merwe, Structure and growth of crystalline superlattices: From monolayer to superlattice, PHYS. REV. B, 33, 1986	LAMBETH-000252638	
PX0600	Soshin Chikazumi, PHYSICS OF FERROMAGNETISM (1997)	LAMBETH-000310448	LAMBETH-000310453
PX0601	Chapter 9 of Robert C. O'Handley, Modern Magnetic Materials: Principles and Applications (2000)	LAMBETH-000310454	LAMBETH-000310468
PX0602	Jan Smit, Magnetic properties of materials at, (1971)	LAMBETH-000310428	LAMBETH-000310435
PX0603	R. S. Tebble, Magnetic Materials (1969).	LAMBETH-000310436	LAMBETH-000310447
PX0604	Milton Ohring, MATERIALS SCIENCE OF THIN FILMS (2nd ed. 2001)	LAMBETH-000310424	LAMBETH-000310427
PX0605	X-ray pole figure taken on sample 1425 2cx	LAMBETH-000147581	
PX0606	J. Shen et al., Structural and magnetic phase transitions of Fe on stepped Cu(111), Phys. Rev. B Vol. 56, (Nov. 1, 1997) at 136]	LAMBETH-000254323	
PX0607	Physics Forums Discussion	LAMBETH-000245087	LAMBETH-000245090
PX0608	Jiles, David, Introduction to Magnetism and Magnetic Materials, 1998		
PX0609	Sun, N.X. et al., Soft High Saturation Magnetization (Fe _{0.7} Co _{0.3}) _{1-x} Nx Thin Films For Inductive Write Heads, IEEE Transactions on Magnetics, Vol. 36, No. 5, September 2000		
PX0610	List of Sputter Deposition Record Sheets for 149 Samples Not Disclosed in the '988 Patent, Exhibit W to Expert Report of Dr. Caroline A. Ross, dated May 1, 2018		
PX0611	Email from Bin Lu to David Lambeth re: SAmPles, dated 1/12/2000	LAMBETH-000144376	
PX0612	Email from Bin Lu to Jason Wolf re: XRD Phi-scan, dated 3/21/2000	LAMBETH-000145046	
PX0613	Email from Bin Lu to David Lambeth re: XRD Phi-scan, dated 3/24/2000	LAMBETH-000145048	LAMBETH-000145049
PX0614	Pole Figure 6	LAMBETH-000147344	
PX0615	Lambeth Magnetic Structures, LLC's First Set of Requests for Admission (Nos. 1-8)	LAMBETH-000245080	LAMBETH-000245090
PX0616	Document entitled "Broken Symmetry S2MMC.xlsx," containing data underlying Expert Report of Kevin Coffey	LMS-SEA0009277	LMS-SEA0011678
PX0617	Document entitled "Broken Symmetry S03PPC.xlsx," containing data underlying Expert Report of Kevin Coffey	LMS-SEA0011679	LMS-SEA0014080
PX0618	Document entitled "Broken Symmetry SBR8DK.xlsx," containing data underlying Expert Report of Kevin Coffey	LMS-SEA0014081	LMS-SEA0016482
PX0619	Document entitled "Materials Considered by Kevin Coffey, Ph.D., Appendix A to Rebuttal Expert Report of Kevin Coffey" dated 7/12/2018		
PX0620	U.S. Patent No. 5,404,256		
PX0621	U.S. Patent No. 5,726,831		
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PX0623	U.S. Patent No. 6,083,570		
PX0624	U.S. Patent No. 6,165,616		
PX0625	U.S. Patent No. 4,519,010		

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PX0626	U.S. Patent No. 4,535,373		
PX0627	U.S. Patent No. 4,922,406		
PX0628	U.S. Patent No. 5,216,557		
PX0629	U.S. Patent No. 5,424,887		
PX0630	U.S. Patent No. 5,446,610		
PX0631	U.S. Patent No. 5,557,487		
PX0632	U.S. Patent No. 5,661,351		
PX0633	U.S. Patent No. 5,708,539		
PX0634	U.S. Patent No. 5,729,403		
PX0635	U.S. Patent No. 5,777,822		
PX0636	U.S. Patent No. 5,796,548		
PX0637	U.S. Patent No. 5,801,900		
PX0638	U.S. Patent No. 5,864,443		
PX0639	U.S. Patent No. RE 32,702		
PX0640	U.S. Patent No. RE 34,412		
PX0641	U.S. Patent No. RE 37,058		
PX0642	U.S. Patent No. 6,531,202		
PX0643	U.S. Patent No. 7,394,622		
PX0644	U.S. Patent No. 9,076,476		
PX0645	U.S. Patent No. 6,037,052		
PX0646	U.S. Patent No. 5,863,661		
PX0647	U.S. Patent No. 6,865,056		
PX0648	U.S. Patent No. 6,771,462		
PX0649	Agreement entitled "License Agreement," between Censtor and Contact Recording Technology, dated 6/9/1995 [8/31/2018 Deposition of Catharine Lawton, Ex. 4]	LAMBETH-000254664	LAMBETH-000254678
PX0650	Agreement entitled "License Agreement," between Censtor and Contact Recording Technology, dated 12/15/1994 [8/31/2018 Deposition of Catharine Lawton, Ex. 5]	LAMBETH-000254829	LAMBETH-000254900
PX0651	Document entitled "Securities and Exchange Commission, Form 10-Q," by Censtor Corp., dated 2/14/1995 [8/31/2018 Deposition of Catharine Lawton, Ex. 6]	LAMBETH-000260265	LAMBETH-000260350
PX0652	"Annual Report pursuant to Section 13 or 15 (d) of the Securities Exchange Act of 1934. For the fiscal year ended: June 30, 1995" by U.S. Securities and Exchange Commission, dated 6/11/1996 [8/31/2018 Deposition of Catharine Lawton, Ex. 7]	LAMBETH-000275162	LAMBETH-000275182
PX0653	Document entitled "Censtor US Patents with an Effective Filing Date Before 1995" [8/31/2018 Deposition of Catharine Lawton, Ex. 8]		
PX0654	Document entitled "Censtor Foreign Patents with an Effective Filing Date Before 1995" [8/31/2018 Deposition of Catharine Lawton, Ex. 9]		
PX0655	Website printout entitled "Research and Development, Q&A with Dr. Mark Kryder - Director of Seagate Research" from Seagate, pulled from Internet Archive, dated 8/18/2000 [8/31/2018 Deposition of Catharine Lawton, Ex. 11]	LAMBETH-000257548	LAMBETH-000257549
PX0656	Transcript entitled "Seagate F2Q06 (Qtr Ending Dec 30, 2005) Earnings Release Conference Call Transcript (STX)" by Seeking Alpha Transcripts, dated 1/19/2006 [8/31/2018 Deposition of Catharine Lawton, Ex. 12]	LAMBETH-000263769	LAMBETH-000262798
PX0657	Website printout entitled "Drive makers' heads spinning as they juggle transitions" by Rick Merrit, from EE Times, dated 9/25/2006 [8/31/2018 Deposition of Catharine Lawton, Ex. 13]	LAMBETH-000262545	LAMBETH-000262548
PX0658	Presentation entitled "Prospects for Magnetic Recording over the next 10 years" by Roger Wood and Hisashi Takano for Hitachi Global Storage Technologies, dated 5/10/2006 [8/31/2018 Deposition of Catharine Lawton, Ex. 14]	LAMBETH-000255909	LAMBETH-000255941
PX0659	Website printout entitled "Analysis: Perpendicular Versus Horizontal Drive Technology" by Network Computing, dated 4/27/2018 [8/31/2018 Deposition of Catharine Lawton, Ex. 15]	LAMBETH-000259991	
PX0660	Agreement entitled "Patent License Agreement" between Headway Technologies and Seagate Technology Inc., dated 2/1/1995 [8/31/2018 Deposition of Catharine Lawton, Ex. 16]	SEA00527065	SEA00527077
PX0661	Agreement entitled "Cross License and Know-How Transfer Agreement" between Seagate and Headway, dated 5/19/1995 [8/31/2018 Deposition of Catharine Lawton, Ex. 17]	LAMBETH-000262814	LAMBETH-000262832
PX0662	Document entitled "Lawton's Understanding of January 2006 Transcript" [8/31/2018 Deposition of Catharine Lawton, Ex. 18]		
PX0663	Press release entitled "Seagate Delivers New Family of Barracuda Drives With Up to a Massive Half Terabyte of Capacity and Fast 3 Gbit/Second Serial ATA Interface. - Seagate ships world's only 9th generation 7200-RPM desktop disc drive with Serial ATA 2.5," dated 10/10/2005 [8/31/2018 Deposition of Catharine Lawton, Ex. 19]		
PX0664	Magazine article entitled "BEVY OF COMPUTER PARTS ADDS UP TO A BANNER YEAR" by William Wong for Electronic Design, dated 12/1/2005 [8/31/2018 Deposition of Catharine Lawton, Ex. 20]		
PX0665	Website printout entitled "Seagate Ships World's First 160GB Notebook PC Hard Drives with Perpendicular Recording Technology," from Seagate US, dated 1/16/2006 [8/31/2018 Deposition of Catharine Lawton, Ex. 21]		
PX0666	Product Manual for Barracuda 7200.9 Serial ATA Product Manual by Seagate, dated 2006 [8/31/2018 Deposition of Catharine Lawton, Ex. 22]		

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PX0667	Document entitled "Data Sheet, Momentus 5400.3," by Seagate, dated 2008 [8/31/2018 Deposition of Catharine Lawton, Ex. 23]		
PX0668	Color photocopy of a photograph [8/31/2018 Deposition of Catharine Lawton, Ex. 24]		
PX0669	Agreement entitled "Settlement and Patent License Agreement," between Lambeth Magnetic Structures, David Lambeth, and TDK Corporation, dated 3/30/2017 [8/31/2018 Deposition of Catharine Lawton, Ex. 26]	LAMBETH-000222078	LAMBETH-000222098
PX0670	Zarzadzanie, December 2017, pp. 77-88, at 82, available at https://mpr.aub.uni-muenchen.de/83438/1/MPRA_paper_83438.pdf	LAMBETH-000272901	LAMBETH-000272913
PX0671	Document entitled "Electronic Components Industry, Outlook for HDD Market in 2007 and Beyond; Implications of Industry Consolidation," by Shoji Sato and Naomi Miwa for J.P. Morgan, dated 1/15/2007	SEA02401016	SEA02401047
PX0672	Presentation entitled "Global Components Aligned Manager Meeting," by Seagate dated 3/2006	SEA02372262	SEA02372341
PX0673	Document entitled "Notebook Status Report" dated 4/22/2004	SEA02798442	SEA02798445
PX0674	Document entitled "Notebook Status Report" dated 8/18/2004	SEA02796360	SEA02796363
PX0675	Document entitled "Notebook Status Report" dated 8/4/2004	SEA02800986	SEA02800988
PX0676	Document entitled "Notebook Status Report" dated 6/23/2004	SEA02800967	SEA02800969
PX0677	Document entitled "Notebook Status Report" dated 10/13/2004	SEA02801113	SEA02801116
PX0678	Document entitled "Notebook Status Report" dated 8/25/2004	SEA02801047	SEA02801050
PX0679	Document entitled "Notebook Status Report" dated 9/22/2004	SEA02801107	SEA02801111
PX0680	Document entitled "Notebook Status Report" dated 9/29/2004	SEA02801125	SEA02801129
PX0681	Presentation entitled "PDP – Product Development Process" by Seagate	SEA02502018	SEA02502114
PX0682	Email dated 1/25/2007, from David Lambeth to Tsann Lin, RE: "Re: Application to CMU"	LAMBETH-000243012	LAMBETH-000243013
PX0683	Email dated 2/2/2007 from William Ross to David Lambeth, RE: "Re: Congratulations patent 7128988"	LAMBETH-000243015	LAMBETH-000243016
PX0684	Email dated 07/18/2008 from David Lambeth to Phillip Mitchell, RE: "Would you like to schedule a phone conference" [12/6/2017 Deposition of Acacia Research Corp 30(b)(6), Ex. 22]	LAMBETH-000224288	
PX0685	Email dated 10/23/2009 from David Lambeth to Dooyong Lee, Phillip Mitchell, RE: "Meeting on Nov. 5 (Thurs) 1PM" with attachments [12/6/2017 Deposition of Acacia Research Corp 30(b)(6), Ex. 23]	LAMBETH-000224542	LAMBETH-000224543
PX0686	Email dated 9/26/2010 from David N. Lambeth to Phillip Mitchell, Dooyong Lee, RE: "Re[4]: LS Slides part 3" [12/6/2017 Deposition of Acacia Research Corp 30(b)(6), Ex. 27]	LAMBETH-000231213	LAMBETH-000231233
PX0687	Email dated 9/28/2010 from David Lambeth to Phillip Mitchell, N. Thomas Nuhfer, RE: "Introduction" [12/6/2017 Deposition of Acacia Research Corp 30(b)(6), Ex. 28]	LAMBETH-000224747	
PX0688	Email dated 12/11/2010 from David Lambeth to Brian Rinaldi, Phillip Mitchell, Steve Wong, RE: "Compare SS FIBs: CONFIDENTIAL-SUBJECT TO NDA- COMMON INTEREST WORK PRODUCT IN ANTICIPATION OF LITIGATION" [12/6/2017 Deposition of Acacia Research Corp 30(b)(6), Ex. 33]	LAMBETH-000232435	LAMBETH-000232436
PX0689	Presentation entitled "Makara – Qualification (CTU) Phase Review," by Seagate RHMO Core Team, dated 3/19/2014	SEA03106947	SEA03107026
PX0690	Document entitled "2008-2009 TDK Company Profile, English version," by TDK Corp., dated 2009		
PX0691	Presentation entitled "2015 Analyst and Investor Strategic Update," by Seagate, dated 9/2/2015, available at https://www.seagate.com/www-content/investors/_shared/docs/2015-analyst-day.pdf .	LAMBETH-000307361	LAMBETH-000307396
PX0692	Document entitled "2015-2016 TDK Company Profile, English version," by TDK Corp., dated 2009	LAMBETH-000305375	LAMBETH-000305388
PX0693	Webpage printout entitled "250 millionth drive," from Computer History Museum, dated 4/1999, retrieved 3/2007 available at http://corphist.computerhistory.org/corphist/view.php?s=events&id=802 .	LAMBETH-000283260	LAMBETH-000283260
PX0694	Real estate listing for 2570 W. El Camino Real; Mountain View, CA, available at https://42floors.com/us/ca/mountain-view/2570-w-el-camino-real	LAMBETH-000307401	LAMBETH-000307403
PX0695	Document entitled "500GB Notebook Drives?" from PC Magazine, 8/9/2005.		
PX0696	Webpage printout entitled "About Seagate," from Seagate, dated 2015, retrieved 2018, available at http://www.seagategov.com/ca/en/about-seagate/seagate-history/ .	LAMBETH-000283261	LAMBETH-000283267
PX0697	Press release entitled "Acacia Names Phillip Mitchell Vice President, Engineering," by Rob Stewart for Acacia Research Corp., dated 1/3/2008, available at https://web.archive.org/web/20080706132456/http://www.acaciaresearch.com/pr/010308Mitchell.pdf .	LAMBETH-000302414	LAMBETH-000302415
PX0698	Press release entitled "Acacia Research Corporation Announces Completion of Public Equity Offering," by Rob Stewart for Acacia Research Corp., dated 3/25/2011, available at https://web.archive.org/web/20120127182156/http://www.acaciaresearch.com/pr/032511.pdf .	LAMBETH-000255459	LAMBETH-000255460
PX0699	Document entitled "Acacia Research Corporation Fact Sheet," by Rob Stewart for Acacia Research Corp., 7/6/2008, available at https://web.archive.org/web/20080706132344/http://www.acaciaresearch.com/pr/AcaciaFactSheet.pdf .	LAMBETH-000302416	LAMBETH-000302416
PX0700	Press release entitled "Acacia Research Reports Fourth Quarter and Record Year End Financial Results," by Rob Stewart for Acacia Research Corp., dated 2/24/2011, available at https://web.archive.org/web/20120127191337/http://www.acaciaresearch.com/pr/022411b.pdf	LAMBETH-000255461	LAMBETH-000255472
PX0701	Press Release entitled "Acacia Subsidiary Acquire Patent for Magnetic Storage Technology," by Rob Stewart for Acacia Research Corp., dated 12/30/2010, available at https://web.archive.org/web/20130324162026/http://acaciaresearch.com/pr/123010b.pdf .	LAMBETH-000286529	LAMBETH-000286529
PX0702	Press release entitled "Acacia Subsidiaries Enter Into License Agreement with Toshiba Corporation," by Acacia Research Corp, via AOL.com, dated 2/27/2008, available at https://web.archive.org/web/20080509190621/http://www.acaciaresearch.com/news_main.htm	LAMBETH-000302417	LAMBETH-000302421

PX #	Description	BatesBegin	BatesEnd
PX0703	Press release entitled "Acacia Technologies Enters Into License Agreement with Hewlett-Packard," by Rob Stewart for Acacia Research Corp., dated 7/3/2006, available at https://web.archive.org/web/20071023121902/http://www.acaciaresearch.com/pr/070306HP.pdf	LAMBETH-000259972	LAMBETH-000259973
PX0704	Press release entitled "Acacia Technologies Enters Into License Agreement with IBM," by Rob Stewart for Acacia Research Corp., dated 4/26/2006, available at https://web.archive.org/web/20071023121520/http://www.acaciaresearch.com/pr/042606IBM.pdf	LAMBETH-000302424	LAMBETH-000302425
PX0705	Press release entitled "Acacia Technologies Licenses Image Resolution Enhancement Technology to Dell," by Rob Stewart for Acacia Research Corporation, dated 11/21/2006, available at https://web.archive.org/web/20071025082452/http://www.acaciaresearch.com/pr/112106Dell.pdf	LAMBETH-000259976	LAMBETH-000259977
PX0706	Press release entitled "Acacia Technologies Licenses Interactive Television Patents to Samsung," by Rob Stewart for Acacia Research Corp., dated 9/27/2005, available at https://web.archive.org/web/20071023114909/http://www.acaciaresearch.com/pr/092705.pdf	LAMBETH-000259978	LAMBETH-000259979
PX0707	Press release entitled "Acacia Technologies Licenses Multi-Dimensional Bar Code Technology to Hitachi Global Storage Technologies," by Rob Stewart for Acacia Research Corp., 3/29/2006, available at https://web.archive.org/web/20071023121508/http://www.acaciaresearch.com/pr/032906.pdf	LAMBETH-000302430	LAMBETH-000302431
PX0708	Press release entitled "Acacia Technologies Licenses Mutli-Dimensional Bar Code Technology to Dell Inc.," by Rob Stewart for Acacia Research Corp., dated 10/18/2006, available at https://web.archive.org/web/20071023122010/http://www.acaciaresearch.com/pr/101806Dell.pdf	LAMBETH-000302432	LAMBETH-000302433
PX0709	Bio of Albert Fert by The Nobel Foundation from NobelPrize.org, dated 2007, available at https://www.nobelprize.org/nobel_prizes/physics/laureates/2007/fert-bio.html .	LAMBETH-000275771	LAMBETH-000275777
PX0710	Document entitled "Albert Fert – Facts," NobelPrize.org, https://www.nobelprize.org/nobel_prizes/physics/laureates/2007/fert-facts.html .		
PX0711	Webpage printout entitled "AMR and GMR Heads Increase Hard Drive Capacity in Western Digital Drives," from Western Digital, dated 3/30/1999 available at https://web.archive.org/web/20001206174800/http://www.wdc.com:80/products/drives/drivers-ed/amr_tp.html .	LAMBETH-000286532	LAMBETH-000286534
PX0712	Document entitled "Analysis: Perpendicular Versus Horizontal Drive Technology," from Network Computing, dated 8/10/2006, available at https://www.networkcomputing.com/careers/analysis-perpendicular-versus-horizontal-drive-technology/1584019899/page/0/1 .	LAMBETH-000259991	LAMBETH-000259991
PX0713	Presentation entitled "Analyst and Investor Meeting," by Seagate, dated 9/7/2007, available at https://web.archive.org/web/20101129172815/http://seagate.com/staticfiles/docs/pdf/corporate/stx-2007-analyst-day-slides.zip	LAMBETH-000259992	LAMBETH-000260110
PX0714	Presentation entitled "Anelva-Seagate Meeting," by Seagate, dated 2/2005	SEA00999215	SEA00999242
PX0715	Document entitled "Antitrust Guidelines for the Licensing of Intellectual Property," issued by the U.S. Department of Justice and the Federal Trade Commission, dated 4/6/1995, available at http://www.justice.gov/sites/default/files/atr/legacy/2006/04/27/0558.pdf .	LAMBETH-000261025	LAMBETH-000261058
PX0716	Webpage printout entitled "Artifact Details – Censtor Corporation," from Computer History Museum, dated 1982, retrieved 2018, available at http://www.computerhistory.org/collections/catalog/102739212 .	LAMBETH-000275897	LAMBETH-000275897
PX0717	LinkedIn profile of Bing Wan, available at https://www.linkedin.com/in/bing-wan-00675a1/ .	LAMBETH-000292885	LAMBETH-000292886
PX0718	LinkedIn profile of Bob Smigelski, available at https://www.linkedin.com/in/bobsmigelski/	LAMBETH-000292887	LAMBETH-000292889
PX0719	LinkedIn profile of Brian Barrieau, available at https://www.linkedin.com/in/brian-barrieau-7621a07/ .	LAMBETH-000260111	LAMBETH-000260114
PX0720	Webpage printout entitled "Briefs," from EE Times, dated 3/19/2002, available at https://www.eetimes.com/document.asp?doc_id=1132314	LAMBETH-000265827	LAMBETH-000265830
PX0721	Document entitled "Business and Professional News," from PostBulletin, dated 6/16/1997, available at https://www.postbulletin.com/business-and-professional-news/article_5d8c3805-493f-5dce-b637-47722fc1c7c0.html	LAMBETH-000307575	LAMBETH-000307578
PX0722	Document entitled "Case No COMP/M.4100 – Seagate/Maxtor," by The European Commission, dated 4/27/2006, available at http://ec.europa.eu/competition/mergers/cases/decisions/m4100_20060427_20310_en.pdf .	LAMBETH-000292894	LAMBETH-000292903
PX0723	Document entitled "Case No COMP/M.6203 – Western Digital Ireland/Viviti Technologies," by The European Commission, dated 11/23/2011, available at http://ec.europa.eu/competition/mergers/cases/decisions/m6203_20111123_20600_3212692_EN.pdf	LAMBETH-000261060	LAMBETH-000261302
PX0724	Document entitled "Case No COMP/M.6214 – Seagate/HDD Business of Samsung," by The European Commission, dated 10/19/2011, available at http://ec.europa.eu/competition/mergers/cases/decisions/m6214_3520_2.pdf .	LAMBETH-000267345	LAMBETH-000267470
PX0725	Document entitled "Case Study: Seagate," E2Open, 2009, http://hosteddocs.ittoolbox.com/seagate-case-study.pdf (described Seagate's E2Open implementation in detail).		
PX0726	Document entitled "Center for Nano-Enabled Device and Energy Technologies," by Carnegie Mellon University, available at http://cnxt.web.cmu.edu/faculty.html .	LAMBETH-000283459	LAMBETH-000283463
PX0727	Document entitled "Chapter 3 – Antitrust Analysis of Portfolio Cross-Licensing Agreements and Patent Pools," by The U.S. Department of Justice, dated 2014, available at https://www.justice.gov/sites/default/files/atr/legacy/2014/05/30/chapter_3.pdf	LAMBETH-000267797	LAMBETH-000267825
PX0728	Webpage printout entitled "Charap Receives IEEE Reynold B. Johnson Data Storage Device Technology Award," by Carnegie Mellon University, via CMU DSSC, dated 11/21/2007, available at https://www.dssc.ece.cmu.edu/news/headlines/2007/11/charap-receives-ieee-reynold-b.-johnson-data-storage-device-technology-award.html .	LAMBETH-000255489	LAMBETH-000255489
PX0729	Pamphlet entitled "Carnegie Mellon Material and Science Engineering News," Vol. 1, dated Summer 2004, available at https://www.cmu.edu/engineering/materials/news_and_events/newsletter/files/pdf/cmu-mse-news-2004-summer.pdf .	LAMBETH-000283464	LAMBETH-000283475

PX #	Description	BatesBegin	BatesEnd
PX0730	Document entitled "Competition and Intellectual Property Law and Policy in the Knowledge-Based Economy," by The Federal Trade Commission and Department of Justice Antitrust Division Roundtables, dated 2/6/2002 Tr., available at https://www.ftc.gov/sites/default/files/documents/public_events/competition-ip-law-policy-knowledge-based-economy-hearings/020206ftc.pdf .	LAMBETH-000284681	LAMBETH-000284964
PX0731	Document entitled "Competition and Intellectual Property Law and Policy in the Knowledge-Based Economy," by The Federal Trade Commission and Department of Justice Antitrust Division Roundtables, dated 11/6/2002, available at https://www.ftc.gov/sites/default/files/documents/public_events/competition-ip-law-policy-knowledge-based-economy-hearings/021106ftctrans.pdf	LAMBETH-000293970	LAMBETH-000294162
PX0732	Document entitled "Competition and Intellectual Property Law and Policy in the Knowledge-Based Economy," The Federal Trade Commission and Department of Justice Antitrust Division Roundtables, dated 11/6/2002, available at https://www.ftc.gov/sites/default/files/documents/public_events/competition-ip-law-policy-knowledge-based-economy-hearings/021106ftctrans.pdf	LAMBETH-000283476	LAMBETH-000283668
PX0733	Document entitled "Competition and Intellectual Property Law and Policy in the Knowledge-Based Economy," by The Federal Trade Commission, dated 2/27/2002, available at https://www.ftc.gov/sites/default/files/documents/public_events/competition-ip-law-policy-knowledge-based-economy-hearings/020227trans.pdf	LAMBETH-000293757	LAMBETH-000293969
PX0734	Document entitled "Competition and Intellectual Property Law and Policy in the Knowledge-Based Economy," The Federal Trade Commission, dated 2/28/2002, available at https://www.ftc.gov/sites/default/files/documents/public_events/compe	LAMBETH-000277303	LAMBETH-000277303
PX0735	Document entitled "Competition and Intellectual Property Law and Policy in the Knowledge-Based Economy: Cross-Licensing and Patent Pools," by The Federal Trade Commission and Department of Justice Antitrust Division Roundtables, dated 4/17/2002, available at https://www.ftc.gov/sites/default/files/documents/public_events/competition-ip-law-policy-knowledge-based-economy-hearings/020417trans.pdf	LAMBETH-000277019	LAMBETH-000277302
PX0736	Document entitled "Competition and Intellectual Property Law and Policy in the Knowledge-Based Economy: Cross-Licensing and Patent Pools," by The Federal Trade Commission and Department of Justice Antitrust Division Roundtables, dated 2/26/2002, available at https://www.ftc.gov/sites/default/files/documents/public_events/competition-ip-law-policy-knowledge-based-economy-hearings/020226trans.pdf	LAMBETH-000261320	LAMBETH-000261532
PX0737	Document entitled "Competitive Intelligence Report," by Seagate, dated 4/30/2005	SEA01960011	SEA01960016
PX0738	Document entitled "Competitive Intelligence Report," by Seagate, dated 1/31/2005	SEA02293156	
PX0739	Document entitled "Competitive Intelligence Report," Seagate, dated 6/30/2005	SEA02297245	
PX0740	Webpage printout entitled "Conner CP340 Family," Computer History Museum, available at http://s3.computerhistory.org/groups/ds-conner-cp340-family-120621.pdf	LAMBETH-000268114	LAMBETH-000268117
PX0741	Webpage printout entitled "Conner Peripherals, Inc. History," via Funding Universe, retrieved on 4/23/2018 available at http://www.fundinguniverse.com/company-histories/conner-peripherals-inc-history/ .	LAMBETH-000294408	LAMBETH-000294408
PX0742	Presentation entitled "Corporate Overview," by Seagate, dated 1/2006	SEA01004497	SEA01004528
PX0743	Bio of David N. Lambeth from Carnegie Mellon University ECE, retrieved in 2016 available at https://www.ece.cmu.edu/directory/departments/faculty/L/David_Lambeth_94.html .	LAMBETH-000261584	LAMBETH-000261584
PX0744	Webpage printout entitled "David N. Lambeth's complete Executive Work History," from Equilar, dated 4/13/2005 available at http://people.equilar.com/bio/david-lambeth-intevac-inc/salary/76064 .	LAMBETH-000283729	LAMBETH-000283730
PX0745	Document entitled "Design-In, Design-Win," from Technology and IP Law Glossary, dated 6/14/2013, available at http://www.ipglossary.com/glossary/design-in-design-win/#.WtJYO4jwbIU .	LAMBETH-000274997	LAMBETH-000274997
PX0746	Document entitled "Disc drive inventor wins £28m payout," by Anne Hyland for The Guardian, dated 1/27/2000, available at https://www.theguardian.com/business/2000/jan/28/13 .	LAMBETH-000285283	LAMBETH-000285283
PX0747	Document entitled "Discoverers of giant magnetoresistance win this year's physics nobel," from Physics Today, dated 12/2007, available at https://physicstoday.scitation.org/doi/abs/10.1063/1.2825057	LAMBETH-000277657	LAMBETH-000277661
PX0748	Webpage printout entitled "Disk Drive Update: Seagate makes Disk Drives in U.S. and Asia," from McIlvaine Company, dated 12/2008, available at http://www.mcilvaine.com/industryforecast/disk%20drive/updates/dec%2008%20update.htm .	LAMBETH-000255530	LAMBETH-000255532
PX0749	LinkedIn of Ed Murdock, Ph.D., available at https://www.linkedin.com/in/edmurdock/ .	LAMBETH-000255533	LAMBETH-000255536
PX0750	LinkedIn bio of Ed Murdock, Ph.D., 5/2017, available at https://www.linkedin.com/in/edmurdock/detail/treasury/summary/?entityUrn=urn%3Aali%3Afs_treasuryMedia%3A	LAMBETH-000255537	LAMBETH-000255539
PX0751	LinkedIn of Eva Lee, available at https://www.linkedin.com/in/evallee22/	LAMBETH-000306969	LAMBETH-000306974
PX0752	Document entitled "Exceeding Capacity, Speed and Performance Expectations," by Seagate, dated 2011, available at https://www.seagate.com/files/staticfiles/docs/pdf/whitepaper/seagate-acutrac-TP624.1-1110US.pdf .	LAMBETH-000286560	LAMBETH-000286560
PX0753	Diagram entitled "Diagram of Hard Disk Drive Manufacturer Consolidation.svg," by Infogalactic, dated 1/5/2017, available at https://infogalactic.com/w/images/thumb/8/87/Diagram_of_Hard_Disk_Drive_Manufacturer_Consolidation.svg/534px-Diagram_of_Hard_Disk_Drive_Manufacturer_Consolidation.svg.png .	LAMBETH-000268551	
PX0754	Webpage printout entitled "Technology Transfer," by Helmholtz Association, available at https://www.helmholtz.de/en/transfer/technology_transfer/success_stories/licencing/ .	LAMBETH-000285430	LAMBETH-000285435
PX0755	Document entitled "Garry Garretson," from National Security Forum, dated 9/15/2017, available at https://nationalsecurityforum.org/2017/09/15/board-members-advisors-volunteers-and-staff/ .		
PX0756	Bio of Garry Garretson, from da Vinci Capital Group, available at http://davinicicapitalgroup.com/garry.garretson.php	LAMBETH-000285468	LAMBETH-000285468

PX #	Description	BatesBegin	BatesEnd
PX0757	Search for "Gary Summers" on the Public Records Directory, dated 2017, available at https://publicrecords.directory/profiles/gary-summers.320264.html .	LAMBETH-000277866	LAMBETH-000277866
PX0758	LinkedIn of Gary Summers, available at https://www.linkedin.com/in/summersgary/ .	LAMBETH-000285493	LAMBETH-000285494
PX0759	Webpage printout entitled "Gerstner: Changing Culture at IBM – Lou Gerstner Discusses Changing the Culture at IBM," by Martha Lagace, from Harvard Business School Working Knowledge, dated 12/9/2002, available at https://hbswk.hbs.edu/archive/gerstner-changing-culture-at-ibm-lou-gerstner-discusses-changing-the-culture-at-ibm .	LAMBETH-000285495	LAMBETH-000285498
PX0760	Webpage printout entitled "Glossary," from Western Digital, dated 2/3/1999, available at https://web.archive.org/web/20000817082647/http://www.wdc.com:80/acrobat/glossary.pdf	LAMBETH-000255544	LAMBETH-000255558
PX0761	Webpage printout entitled "GMR, The Giant Magnetoresistive Head: A giant leap for IBM Research," from IBM Research, dated 1998, available at https://www.research.ibm.com/research/gmr.html .	LAMBETH-000285501	LAMBETH-000285503
PX0762	Webpage printout entitled "HAMR Technology Advances Hard Disk Drive Industry," from Materion, dated 2016, available at https://materion.com/ResourceCenter/Newsletters/MaterialsNews-StatsandChats/HAMRTechnologyAdvancesHardDiskDriveIndustry.aspx .	LAMBETH-000296546	LAMBETH-000296548
PX0763	Webpage printout entitled "Hard Drives 101: Magnetic Storage; Read/Write Head Designs: Ferrite, Metal-In-Gap, And Thin-Film," from Tom's Hardware, dated 8/31/2011, available at http://www.tomshardware.com/reviews/hard-drive-magnetic-storage-hdd,3005.html .	LAMBETH-000274350	LAMBETH-000274357
PX0764	Webpage printout entitled "HDD global shipment – market share," from iSuppli, dated 4/14/2006, available at http://hard-disk-trend.blogspot.com/2006_04_01_archive.html .	LAMBETH-000297150	LAMBETH-000297176
PX0765	Presentation entitled "HDD Head Business Outlook," by TDK Data Storage & Thin Film Technology Components Business Group, dated 4/27/2006.	LAMBETH-000297177	LAMBETH-000297182
PX0766	Presentation entitled "Head development" by the Seagate RHO Transducer Development Team, dated 9/26/2013	SEA00380467	SEA00380517
PX0767	Document entitled "HGST and Hard Drive Reliability," by HGST, dated 11/2012, available at https://www.hgst.com/sites/default/files/resources/Reliability_White_Paper_FINAL(5.05).pdf	LAMBETH-000298015	LAMBETH-000298018
PX0768	Webpage printout entitled "History," from TDK Headway Technologies, Inc., dated 2017, available at http://www.headway.com/history.html .	LAMBETH-000263085	
PX0769	Press release entitled "Hitachi and IBM Agree to Strategic Storage Alliance; Plans Call for Combined HDD Operations, Collaboration on Systems Interoperability," by Hitachi, dated 4/17/2002, available at http://www.hitachi.com/New/cnews/E/2002/0417/0417.pdf .	LAMBETH-000286037	LAMBETH-000286039
PX0770	Webpage printout entitled "How WD, Seagate and Toshiba ate the hard disk drive market," from ITCandor, dated 5/1/2015, available at http://www.itcandor.com/hard-disk-suppliers/	LAMBETH-000283736	LAMBETH-000283739
PX0771	Pamphlet entitled "HP Hard Disk Drive Quality System – The Driving Force of Reliability," by Hewlett-Packard, dated 11/2006, available at http://whp-hou4.cold.extweb.hp.com/pub/c-products/servers/proliantstorage/drivers-enclosures/scsi-hdd-quality-sys.pdf .	LAMBETH-000298142	LAMBETH-000298153
PX0772	Webpage printout entitled "IBM 75GXP," from Computer History Museum, dated 10/31/2012, http://s3.computerhistory.org/groups/ds-ibm-75gxp-family-20121031.pdf	LAMBETH-000264813	LAMBETH-000264817
PX0773	Press release entitled "IBM Researchers Create New 'Self-assembling' Magnetic Materials; Could Lead to 100-Fold Increase in Computer Data-Storage Density," by IBM, dated 3/17/2000, available at https://www-03.ibm.com/press/us/en/pressrelease/1824.wss	LAMBETH-000286105	LAMBETH-000286106
PX0774	Document entitled "In the Matter of Certain Semiconductor Integrated Circuits and Products Containing Same," from FTC Investigation No. 337-TA-665, dated 10/2011, available at https://www.usitc.gov/intellectual_property/documents/pub4268_volume_2_of_2.pdf .	LAMBETH-000298200	LAMBETH-000298542
PX0775	Interview with Albert Fert and Peter Grunberg from NobelPrize.org, dated 12/6/2007, available at https://www.nobelprize.org/mediaplayer/index.php?id=770 .	LAMBETH-000286234	LAMBETH-000286241
PX0776	Document entitled "Intevac Annual Report 2005," by Intevac, dated 2006, available at http://www.annualreports.com/HostedData/AnnualReportArchive/i/NASDAQ_IVAC_2005.pdf .	LAMBETH-000263367	LAMBETH-000263374
PX0777	Presentation entitled "Investor Day 2016," by Western Digital, dated 12/6/2016, available at http://files.shareholder.com/downloads/WDC/0x0x920206/274557B2-F1B6-482E-B700-C8CBB0B6DF03/WDC_2016_Investor_Day_Presentations_12062016.pdf .	LAMBETH-000286682	LAMBETH-000286842
PX0778	Webpage printout entitled "Iomega to Acquire French Rival Nomai," from Los Angeles Times, dated 6/30/1998, available at http://articles.latimes.com/1998/jun/30/business/fi-64821	LAMBETH-000287757	LAMBETH-000287760
PX0779	Pamphlet entitled "Irell & Manella, LLP," by Irell & Manella LLP, available at https://www.irell.com/media/site_files/35_USC%20IP%20Institute%20v2%20_2_.pdf .	LAMBETH-000270375	LAMBETH-000270389
PX0780	Obituary of James W. White, from The Herald, dated 11/19/2017, available at http://www.legacy.com/obituaries/heraldonline/obituary.aspx?n=james-w-white&pid=187272421&fhid=6410 .	LAMBETH-000287761	LAMBETH-000287762
PX0781	Bio of Joseph F. Vilella, Jr., from Longitude Licensing, available at http://www.longitudelicensing.ie/joseph_vilella.shtml .	LAMBETH-000287951	LAMBETH-000287952
PX0782	LinkedIn of Joseph Vilella, available at https://www.linkedin.com/in/joseph-vilella-b5a8611/ .	LAMBETH-000287953	LAMBETH-000287954
PX0783	LinkedIn of Kenneth Massaroni, available at https://www.linkedin.com/in/kenneth-massaroni-2962333/ .	LAMBETH-000287962	LAMBETH-000287963
PX0784	Webpage printout entitled "Licensing," from Helmholtz Association, available at https://www.helmholtz.de/en/transfer/technology_transfer/technology_transfer_channels/licensing/ .	LAMBETH-000279537	LAMBETH-000279539
PX0785	Webpage printout entitled "Living by Litigation, Tiny Rodime Takes on Seagate," from Computer Business Review, dated 8/16/1998, available at http://archive.is/XlmGh .	LAMBETH-000279540	LAMBETH-000279541
PX0786	Webpage printout entitled "Making Growth Happen, Implementing Policies for Competitive Industries," from World Bank Group, available at https://www.theciip.org/content/making-growth-happen-implementing-policies-competitive-industries-winning-papers .	LAMBETH-000288088	LAMBETH-000288089
PX0787	LinkedIn of Marcos Meirelles, available at https://www.linkedin.com/in/marcos-meirelles-805301/ .	LAMBETH-000270487	LAMBETH-000270489
PX0788	Bio of Mark Re, from Crunchbase, available at https://www.crunchbase.com/person/mark-re#section-overview .	LAMBETH-000288090	
PX0789	LinkedIn of Mark Re, available at https://www.linkedin.com/in/mark-re-4b54a3b/	LAMBETH-000288091	LAMBETH-000288092

PX #	Description	BatesBegin	BatesEnd
PX0790	Bio of Mark Samuels, Partner at O'Melveny, available at https://www.omm.com/professionals/mark-a-samuels/?generatePdf=1 .	LAMBETH-000298760	LAMBETH-000298768
PX0791	Document entitled "Conner Peripherals, Inc. 10-Q" by US SEC, dated 3/31/1995, available at https://www.nasdaq.com/markets/ipos/filing.ashx?filingid=438893 .	LAMBETH-000294263	LAMBETH-000294282
PX0792	Webpage printout entitled "Compare Instructions: Reasonable Royalty," by Travis Jensen, from Model Jury Instructions, dated 2012, available at http://www.modeljuryinstructions.com/tag/reasonable-royalty/ .	LAMBETH-000296718	LAMBETH-000296727
PX0793	Bio of Marshall C. Phelps, Jr., from Brody Berman, available at http://www.brodyberman.com/our-team/marshall-c-phelps-jr/ .	LAMBETH-000298850	LAMBETH-000298851
PX0794	LinkedIn of Marshall C. Phelps, Jr., available at https://www.linkedin.com/in/marshall-phelps-1534a719/ .		
PX0795	Job description entitled "Mechatronics & Robotics Engineer – Entry Level" (Seagate), from LinkedIn, dated 2/2018, available at https://www.linkedin.com/jobs/view/mechatronics-robotics-engineer-entry-level-at-seagate-technology-563795518/ .	LAMBETH-000298954	LAMBETH-000298955
PX0796	Presentation entitled "Methods For Patent Valuation," by Guido von Scheffer and Martin Ziegler for the International Conference On IP As An Economic Asset: Key Issues In Exploitation And Valuation, dated 7/1/2005, available at http://www.oecd.org/science/sci-tech/35428822.pdf .	LAMBETH-000263530	LAMBETH-000263540
PX0797	LinkedIn of Michael Mitoma, available at https://www.linkedin.com/in/michael-mitoma-09544812/ .	LAMBETH-000298956	LAMBETH-000298957
PX0798	Webpage printout entitled "Microsoft selects Seagate drives," by Ted Griffith, from MarketWatch, dated 11/7/2000, available at https://www.marketwatch.com/story/microsoft-picks-seagate-as-supplier-for-video-game-console .	LAMBETH-000275023	LAMBETH-000275026
PX0799	Press release entitled "Minebea and Seagate enter into cross-license and other agreements," by MinebeaMitsumi, dated 3/1/2000, available at http://www.minebeamitsumi.com/english/news/press/2000/1182431_5983.html .	LAMBETH-000288189	LAMBETH-000288191
PX0800	Webpage printout entitled "Mr. James (Jim) M. McCoy," from IT History Society, available at https://www.ithistory.org/honor-roll/mr-james-jim-m-mccoy .	LAMBETH-000270603	LAMBETH-000270609
PX0801	Webpage printout entitled "Mr. Terry G. Johnson," from IT History Society, available at https://www.ithistory.org/honor-roll/mr-terry-g-johnson .	LAMBETH-000270610	LAMBETH-000270612
PX0802	Wikipedia article entitled "Nomai," available at https://en.wikipedia.org/wiki/Noma%C3%AF .	LAMBETH-000288611	LAMBETH-000288612
PX0803	Document entitled "Notebook Status Report" dated 4/29/2004	SEA02792302	SEA02792305
PX0804	Document entitled "Notebook Status Report" dated 7/28/2004	SEA02792174	SEA02792177
PX0805	Document entitled "Notebook Status Report" dated 3/19/2004	SEA02795817	SEA02795820
PX0806	Document entitled "Notebook Status Report" dated 3/25/2004	SEA02800608	SEA02800611
PX0807	Document entitled "Notebook Status Report" dated 9/1/2004	SEA02801057	SEA028010060
PX0808	Pamphlet entitled "NSF Engineering Research Centers – Creating New Knowledge, Innovators and Technologies For Over 30 Years," by The National Science Foundation, dated 10/2015, available at http://erc-assoc.org/sites/default/files/download-files/ERC%2030th%20anniversary%20brochure.pdf .	LAMBETH-000261798	LAMBETH-000261809
PX0809	Obituary of Prof. Dr. Werner Zinn, from Journal of Magnetism and Magnetic Materials, dated 4/13/1995, available at https://kundoc.com/pdf-prof-dr-werner-zinn-.html .	LAMBETH-000288734	LAMBETH-000288740
PX0810	Interview entitled "Oral History of Jack Clemens (Interviewed by Jim Porter)," from Computer History Museum, dated 7/9/2007, available at http://archive.computerhistory.org/resources/text/Oral_History/Clemens_Jack/102658118.05.01_acc.pdf	LAMBETH-000270624	LAMBETH-000270641
PX0811	Interview entitled "Oral History of Jim McCoy (Interviewed by Jim Porter)," from Computer History Museum, dated 10/3/2005, available at http://archive.computerhistory.org/resources/access/text/2013/05/102657936-05-01_acc.pdf .	LAMBETH-000298972	LAMBETH-000298992
PX0812	Interview entitled "Oral History of John Squires (Interview by Tom Gardner)," from Computer History Museum, dated 7/2009, available at http://archive.computerhistory.org/resources/access/text/2012/05/102702125-05-01_acc.pdf	LAMBETH-000294163	LAMBETH-000294219
PX0813	Interview entitled "Oral History of John Squires (Interview by Tom Gardner)," from Computer History Museum, dated 7/2009, available at http://archive.computerhistory.org/resources/access/text/2012/05/102702125-05-01_acc.pdf	LAMBETH-000255744	LAMBETH-000255800
PX0814	Interview entitled "Oral History of Mark Kryder (Interviewed by Chris Bajorek)" from Computer History Museum, dated 4/14/2017, available at http://archive.computerhistory.org/resources/access/text/2017/12/102738245-05-01_acc.pdf .	LAMBETH-000288798	LAMBETH-000288848
PX0815	Interview entitled "Oral History of PMR Head and Media (Yoichiro Tanaka, Hiroshi Sakai, and Koichi Terumuma)" (Interview by Chris Bajorek), from Computer History Museum, dated 9/1/2016, available at http://archive.computerhistory.org/resources/access/text/2016/12/102717208-05-01_acc.pdf .	LAMBETH-000287091	LAMBETH-000287107
PX0816	Interview entitled "Oral History of Syed Ifikar" (Interview by Tom Gardner), from Computer History Museum, dated 11/1/2006 and 12/14/2006, available at http://archive.computerhistory.org/resources/access/text/2013/05/102658066-05-01_acc.pdf .	LAMBETH-000288866	LAMBETH-000288930
PX0817	Interview entitled "Oral History of Terry Johnson (Interviewed by Jim Porter)," from Computer History Museum, 9/24/2006 - 9/25/2006, available at http://archive.computerhistory.org/resources/text/Oral_History/Johnson_Terry/Johnson_Terry.oral_history.2006.102_657961.pdf .	LAMBETH-000255852	LAMBETH-000255864
PX0818	Interview entitled "Oral History of Tu Chen" (Interviewed by Chris Bajorek), from Computer History Museum, dated 10/28/2005, available at http://archive.computerhistory.org/resources/access/text/2015/06/102657958-05-01_acc.pdf	LAMBETH-000288931	LAMBETH-000289007
PX0819	Interview entitled "Oral-History: Richard Petritz," from Engineering and Technology History Wiki, dated 4/17/2015, available at http://ethw.org/Oral-History:Richard_Petritz	LAMBETH-000270784	LAMBETH-000270808
PX0820	Pamphlet entitled "Our History," by TDK Corp., dated 5/2/2018, available at http://www.global.tdk.com/corp/en/about_tdk/our_history/index.htm .	LAMBETH-000304681	LAMBETH-000304692
PX0821	Webpage printout entitled "Our Research Centers," Helmholtz Association, available at https://www.helmholtz.de/en/about_us/helmholtz_centres/ .	LAMBETH-000289008	LAMBETH-000289009

PX #	Description	BatesBegin	BatesEnd
PX0822	Chart entitled "Patent/copyright infringement lawsuit/licensing awards," by Center for Global Innovation/Patent Metrics, dated 6/2015, available at http://www.bustpatents.com/awards.html	LAMBETH-000289018	LAMBETH-000289030
PX0823	Webpage printout entitled "Patented Innovation; Seagate's patent portfolio? It's very inventive," from Seagate, dated 12/3/2002, available at https://web.archive.org/web/20021203214420/http://www.seagate.com:80/newsinfo/technology/patents/index.html	LAMBETH-000289017	
PX0824	Presentation entitled "Performance Briefings – First Half of Fiscal Year March, 2014," by TDK, dated 10/31/2013, available at http://www.global.tdk.com/ir/ir_events/conference/2014/pdf/2014_2q00.pdf .	LAMBETH-000270809	LAMBETH-000270844
PX0825	Bio of Pete Segar, from Ergotron, available at https://www.ergotron.com/en-us/company/management-team/pete-segar .	LAMBETH-000289064	LAMBETH-000289066
PX0826	LinkedIn of Pete Segar, available at https://www.linkedin.com/in/pete-segar-533b6a4/ .	LAMBETH-000289060	LAMBETH-000289063
PX0827	Bio of Peter Grunberg, from NoblePrize.org, dated 2007, available at https://www.nobelprize.org/nobel_prizes/physics/laureates/2007/grunberg-bio.html .	LAMBETH-000289067	LAMBETH-000289076
PX0828	Bio of Phillip R. Altinger, from Equilar, available at http://people.equilar.com/bio/phillip-altinger-dct-industrial/salary/157177 .	LAMBETH-000270913	LAMBETH-000270914
PX0829	Job description entitled "Prototype Assembler" by Seagate, from LinkedIn, dated 2/24/2018, available at https://www.linkedin.com/jobs/view/prototype-assembler-at-seagate-technology-608884810/	LAMBETH-000299246	LAMBETH-000299248
PX0830	Job description entitled "Prototype Operator V" by Seagate, from LinkedIn, dated 10/10/2017, available at https://www.linkedin.com/jobs/view/prototype-operator-v-at-seagate-technology-427099279/ .	LAMBETH-000299249	LAMBETH-000299250
PX0831	Webpage printout entitled "Rasiliant Chooses Seagate SkyHawk Drives," by LRG, Inc., dated 7/20/2017, available at http://lanrepgroup.com/inc/home/news/512-rasiliant-chooses-seagate-skyhawk-drives .	LAMBETH-000299251	LAMBETH-000299253
PX0832	LinkedIn of Rob Hardeman, available at https://www.linkedin.com/in/rob-hardeman-mbe-3481a111/	LAMBETH-000274589	LAMBETH-000274591
PX0833	Document entitled "Rodime's Difficulties," from U-M Computing News, Vol. 4, No. 13, dated 9/4/1989.		
PX0834	Document entitled "Room for Further HDD Share Momentum; Ent Storage Trends Looking Good," from Wachovia Enterprise Storage/Networking Weekly, dated 11/5/2007, available at https://www.hds.com/download/assets/pdf/EHARD110407-164903_Second%20Report.pdf		
PX0835	Presentation entitled "Ruthenium Market Analysis," by Seagate, dated 11/17/2006).	SEA01008261	SEA01008272
PX0836	Press release entitled "Seagate – 1st to market 3.5" PMR hard disk," by Seagate, via blog of Mac Thoo, dated 4/19/2006, available at http://hard-disk-trend.blogspot.com/2006_04_01_archive.html .	LAMBETH-000264041	LAMBETH-000264067
PX0837	Press release entitled "Seagate 'Goes Vertical' and Demonstrates Record Storage Areal Density and Performance," by Seagate, dated 11/12/2002, available at https://www.seagate.com/about-seagate/news/seagate-gets-vertical-and-demonstrates-record-storage-performance-master-pr/ .	LAMBETH-000304970	LAMBETH-000304971
PX0838	Presentation entitled "Seagate Analyst and Investor Meeting," by Seagate, dated 6/10/2005, available at https://web.archive.org/web/20051031010154/http://www.seagate.com:80/newsinfo/docs/pdf/ir/analyst_day_presentation.pdf .	LAMBETH-000289383	LAMBETH-000289453
PX0839	Press release entitled "Seagate announces 160GB perpendicular notebook hard drive," by Seagate, via Tom's Hardware, dated 11/16/2006, available at http://www.tomshardware.co.uk/seagate-momentum-54003,news-18416.html .	LAMBETH-000263928	LAMBETH-000263929
PX0840	Press release entitled "Seagate Announces New Cheetah 15K.5 Hard Drives for Customers That Require the World's Fastest, Most Reliable Enterprise Storage," by Seagate, via Thomas, dated 4/18/2006, available at https://news.thomasnet.com/fullstory/hard-drive-features-perpendicular-recording-technology-482908	LAMBETH-000263930	LAMBETH-000263938
PX0841	Press release entitled "Seagate Appoints Nigel Macleod Vice President, Twin Cities Engineering," by Seagate, via Business Wire, 8/1/1995, available at https://www.thefreelibrary.com/_/print/PrintArticle.aspx?id=17120777	LAMBETH-000290794	
PX0842	Webpage printout entitled "Seagate Business Overview," from Seagate, dated 4/2/2003, available at https://web.archive.org/web/20030402011400/http://www.seagate.com:80/newsinfo/invest/factsheet/index.html .	LAMBETH-000283887	
PX0843	Press release entitled "Seagate Celebrates Milestone: First To Reach Two Billion Hard Disk Drives Shipped," by Seagate, dated 3/2/2013, available at https://www.seagate.com/about-seagate/news/seagate-celebrates-milestone-two-billion-shipped-master-pr/	LAMBETH-000283888	LAMBETH-000283889
PX0844	Newspaper clipping entitled "Seagate drives into the future," from Computerworld, dated 6/1/1987.	LAMBETH-000280867	LAMBETH-000280868
PX0845	Presentation entitled "Seagate Enterprise Storage Qualification Process Overview," by Seagate, dated 4/1/2009.	SEA00161096	SEA00161152
PX0846	Press release entitled "Seagate F206 (Qtr Ending Dec 30, 2005) Earnings Release Conference Call Transcript (STX)," by Seagate, via SeekingAlpha, dated 1/19/2006	LAMBETH-000289454	LAMBETH-000289483
PX0847	Press release entitled "Seagate F2Q07 (Qtr End 12/29/06) Earnings Call Transcript," by Seagate, via Seeking Alpha, dated 1/23/2007.	LAMBETH-000287203	LAMBETH-000287236
PX0848	Press release entitled "Seagate F307 (Qtr End 3/30/07) Earnings Call Transcript," by Seagate, via Seeking Alpha, dated 4/17/2007	LAMBETH-000257584	LAMBETH-000257618
PX0849	Press release entitled "Seagate F407 (Qtr End 6/29/07) Earnings Call Transcript," by Seagate, via Seeking Alpha, dated 7/19/2007	LAMBETH-000257619	LAMBETH-000257653
PX0850	Press release entitled "Seagate First to Ship 1 Billion Hard Drives; Expects Next Billion Within Five Years," by Seagate, dated 4/22/2008, available at http://www.seagategov.com/ca/en/about-seagate/news/seagate-first-ship-1-billion-hard-drives-master-pr/	LAMBETH-000283891	LAMBETH-000283892
PX0851	Magazine article entitled "Seagate Goes Perpendicular," from MaximumPC, dated 8/2006	LAMBETH-000305108	
PX0852	Presentation entitled "Seagate Inbound Supply Chain – Demand Driven Supply Chain Advantages," by Seagate, dated 10/2004, available at https://www.slideshare.net/TheSupplychainniche/seagate-inbound-supply-chain-demand-driven-supply-chain	LAMBETH-000271643	LAMBETH-000271655

PX #	Description	BatesBegin	BatesEnd
PX0853	Press release entitled "Seagate Introduces World's First 2.5-inch Perpendicular Recording Hard Drive; First Major HDD Maker to Deliver Notebook PC Drive with Hardware-based Full Disk Encryption Security," by Seagate, dated 6/8/2005, available at https://web.archive.org/web/20051130221204/http://www.seagate.com:80/cda/newsinfo/newsroom/releases/article/0,1121,2732%5E2,00.html .	LAMBETH-000305113	LAMBETH-000305115
PX0854	Press release entitled "Seagate named 2006 Company of the Year by Forbes Magazine," by Seagate, dated 1/9/2006, https://www.seagate.com/about-seagate/news/seagate-named-2006-company-of-the-Year-by-forbes-magazine-master-pr/ .	LAMBETH-000283893	LAMBETH-000283894
PX0855	Document entitled "Seagate Research Center," by Seagate, dated 8/18/2000, available at https://web.archive.org/web/20000818005417/http://www.seagate.com:80/newsinfo/technology/research/D4b1.htm .		
PX0856	Press release entitled "Seagate sales past 15-million milestone in PMR shipments," by Seagate, via Tom's Hardware, dated 2/5/2007, available at http://www.tomshardware.co.uk/seagate-pmr-news-23793.html .	LAMBETH-000263940	LAMBETH-000263941
PX0857	Press release entitled "Seagate Tech is IPO of the Week," from MarketWatch, dated 12/10/2002, available at https://www.marketwatch.com/story/seagate-tech-is-renaissance-capitals-ipo-of-the-week .	LAMBETH-000290841	LAMBETH-000290843
PX0858	Document entitled "Seagate Technology – Corporate Overview," by Seagate, dated 2007, available at http://web.mit.edu/sma/events/career_fair/2007/Seagate_At-A-Glance.pdf .	LAMBETH-000305142	LAMBETH-000305144
PX0859	Document entitled "Seagate Technology Q4 2006 Earnings Conference Call Transcript (STX)," by Seagate, from Seeking Alpha, dated 8/8/2006.	LAMBETH-000263951	LAMBETH-000263952
PX0860	Document entitled "Seagate Technology, Inc. – Company Profile, Information, Business Description, History, Background Information on Seagate Technology, Inc.," by Reference for Business, available at http://www.referenceforbusiness.com/history2/50/Seagate-Technology-Inc.html .	LAMBETH-000290881	LAMBETH-000290886
PX0861	Webpage printout entitled "Seagate Technology, Inc. History," from Funding Universe, available at http://www.fundinguniverse.com/company-histories/seagate-technology-inc-history/ .	LAMBETH-000294721	LAMBETH-000294726
PX0862	Document entitled "Seagate VP and Research Director Mark Kryder Honored With Two IEEE Awards," from PR Newswire, dated 8/25/2000, https://www.thefreelibrary.com/_/print/PrintArticle.aspx?id=66165928 .		
PX0863	Document entitled "Seagate's Objections and Answers to Lambeth Magnetic Structures, LLC's Second Set of Interrogatories to Seagate Defendants (Nos. 8-11)," dated 3/27/2017	LAMBETH-000231024	LAMBETH-000231049
PX0864	LinkedIn of Sining Mao, available at https://www.linkedin.com/in/sining-mao-45b4837/ .	LAMBETH-000305307	LAMBETH-000305309
PX0865	Bio of Steven J. Luczo, from PopFlock, available at http://www.popflock.com/learn?s=Stephen_J_Luczo .	LAMBETH-000294793	LAMBETH-000294799
PX0866	Transcript entitled "STX – Q2 2004 Seagate Technology Earnings Conference Call," by CCBN Street Events, dated 1/20/2004, available at https://web.archive.org/web/20060409160825/http://www.seagate.com:80/docs/pdf/fins/STX_Q204_transcript.pdf .	LAMBETH-000305348	LAMBETH-000305363
PX0867	Transcript entitled "STX – Q3 2004 Seagate Technology Earnings Conference Call," by CCBN Street Events, dated 4/20/2004, available at https://web.archive.org/web/20060329023826/http://www.seagate.com/docs/pdf/fins/STX_Q304_transcript.pdf .	LAMBETH-000271763	LAMBETH-000271781
PX0868	Transcript entitled "STX – Seagate Technology Analyst and Investor Meeting," by Thomson StreetEvents, dated 9/7/2007, available at https://web.archive.org/web/20101129172720/http://seagate.com/staticfiles/docs/pdf/corporate/seagate_tech-analyst-investor-meeting.rtf .	LAMBETH-000255999	LAMBETH-000256036
PX0869	Transcript entitled "STX – Seagate Technology Fiscal Fourth Quarter and Year-End Financial Results Conference Call," by Thomson StreetEvents, dated 7/20/2004, https://web.archive.org/web/20061231171937/http://www.seagate.com:80/docs/pdf/fins/STX_Q404_yearend_transcript.pdf .	LAMBETH-000271782	LAMBETH-000271800
PX0870	Magazine article entitled "Supershorts," from Computerworld, dated 4/5/1982.	LAMBETH-000256037	
PX0871	Report entitled "TDK – 1Q Results Slightly Above Target; HDD Head Share Up," from Morgan Stanley Dean Witter, dated 8/11/2000	LAMBETH-000305409	LAMBETH-000305430
PX0872	Report entitled "TDK – Guidance discounts HDD head risk; we look for profit growth to resume in FY3/18," from Credit Suisse, dated 4/28/2016.	LAMBETH-000305431	LAMBETH-000305438
PX0873	Report entitled "TDK – HDD head strategy is the key," from Macquarie Research, dated 5/26/2016.	LAMBETH-000305364	LAMBETH-000305374
PX0874	Report entitled "TDK – May Have Edge over Seagate in HDD Head Business," by JP Morgan, dated 5/16/2007.	LAMBETH-000271869	LAMBETH-000271880
PX0875	Report entitled "TDK – Strong Performance from HDD Heads, but No Swing to Profit for Capacitors," from JP Morgan, dated 2/3/2010.	LAMBETH-000300364	LAMBETH-000300377
PX0876	Report entitled "TDK – We Upgrade TDK to Overweight and Add it to Our Japanese Analysts' Focus List and Asia Technology Portfolio Long List," from JP Morgan, dated 1/23/2006.	LAMBETH-000300378	LAMBETH-000300388
PX0877	Report entitled "TDK (6762) Upgrade Rating to Overweight: We Expect Earnings to Bottom in 1H FY2008," from J.P. Morgan, dated 9/30/2008.	LAMBETH-000289548	LAMBETH-000289567
PX0878	Report entitled "TDK (6762)," from ING Barings – Japan Research, dated 4/17/2000.	LAMBETH-000305439	LAMBETH-000305461
PX0879	Report entitled "TDK Business explanation meeting: TDK targeting a 40% HDD head market share by end FY3/07," from Deutsche Bank Group, dated 10/6/2005.	LAMBETH-000300291	LAMBETH-000300297
PX0880	Document entitled "TDK Company Profile 2006-2007," by TDK, dated 7/2006, available at http://www.tdk.co.jp/teaaa01/aaa90100.pdf .		
PX0881	Report entitled "TDK Information Meeting," from Citigroup, dated 10/10/2005.	LAMBETH-000300298	LAMBETH-000300303
PX0882	Document entitled "Technology Paper – Whitebooks: An Imperative Opportunity," by Seagate, dated 10/2006, available at https://www.seagate.com/docs/pdf/whitepaper/TP560_SeagateWhitebook_Oct06.pdf .	LAMBETH-000294843	LAMBETH-000294846
PX0883	Webpage printout entitled "Testimonials," from Acacia Research Group, LLC, 7/29/2013, available at https://web.archive.org/web/20130729003035/http://www.acaciatechnologies.com/testimonials.htm .	LAMBETH-000256038	LAMBETH-000256047

PX #	Description	BatesBegin	BatesEnd
PX0884	Infographic entitled "The 4 Phases of Building Your Dream Disk Drive," by Seagate, dated 1/2016, available at https://www.seagate.com/files/www-content/promos/reliability/_shared/documents/seagatereliability_infgr_v5_us.pdf .	LAMBETH-000294916	
PX0885	Pamphlet entitled "The driving force behind HDD quality, reliability, performance and satisfaction; HPE hard disk drive quality process," by Hewlett-Packard, dated 4/2017, available at https://h20195.www2.hp.com/V2/getpdf.aspx/A00004353ENW.pdf .	LAMBETH-000300401	LAMBETH-000300408
PX0886	Document entitled "The Evolving IP Marketplace – The Operation of IP Markets," by The Federal Trade Commission, dated 5/4/2009, available at https://www.ftc.gov/sites/default/files/documents/public_events/evolving-ip-marketplace/090504transcript.pdf	LAMBETH-000284024	LAMBETH-000284313
PX0887	Bio of Shunichi Iwasaki, from The Franklin Institute, dated 4/2014, https://www.fi.edu/laureates/shunichi-iwasaki	LAMBETH-000256614	LAMBETH-000256615
PX0888	Bio of The Helmholtz Association by the Helmholtz Association, available at https://www.helmholtz.de/en/about_us/the_association/ .	LAMBETH-000295620	LAMBETH-000295624
PX0889	Document entitled "The Helmholtz Association's portfolio process," by Helmholtz Association, available at https://www.helmholtz.de/en/about_us/portfolio_process/ .	LAMBETH-000295625	LAMBETH-000295626
PX0890	Document entitled "The Nobel Prize in Physics 2007," from NobelPrize.org, dated 2007, available at https://www.nobelprize.org/nobel_prizes/physics/laureates/2007/popular-physicsprize2007.pdf .	LAMBETH-000295637	LAMBETH-000295643
PX0891	Magazine article entitled "The Seagate saga," by Mary Beth Grover, from Forbes, dated 5/4/1998, available at https://www.forbes.com/forbes/1998/0504/6109158a.html#7732e8831646 .	LAMBETH-000301361	LAMBETH-000301364
PX0892	Award announcement entitled "Three ECE Faculty Win CIT Faculty Awards," from Carnegie Mellon University, dated 1/1/2004, available at https://www.ece.cmu.edu/news/story/2004/01/three_ece_faculty.html .	LAMBETH-000284314	LAMBETH-000284315
PX0893	Report entitled "To Promote Innovation: The Proper Balance of Competition and Patent Law and Policy," by The Federal Trade Commission, dated 10/2003.	LAMBETH-000284316	LAMBETH-000284630
PX0894	Bio of Tom Porter, Owner of Porter Family Vineyards, available at http://porterfamilyvineyards.com/assets/client/File/Tom%20Porter.pdf	LAMBETH-000295703	LAMBETH-000295704
PX0895	Webpage printout entitled "Toshiba – Basic Corporate Data," from Toshiba, dated 2018, available at https://www.toshiba.co.jp/worldwide/about/corp_data.html .	LAMBETH-000306097	LAMBETH-000306098
PX0896	Document entitled "Toshiba Leads Industry in Bringing Perpendicular Data Recording to HDD—Sets New Record for Storage Capacity With Two New HDDs," by Toshiba, dated 12/14/2004, available at https://www.toshiba.co.jp/about/press/2004_12/pr1401.htm	LAMBETH-000295705	LAMBETH-000295706
PX0897	Bio of Townsend Porter, from Michigan Tech, available at http://www.mtu.edu/alumni/recognition/profiles/townsend-porter.html .	LAMBETH-000295707	LAMBETH-000295708
PX0898	Press release entitled "TSMC and Syndia Reach Settlement," from BusinessWire, dated 11/10/2003, available at https://www.businesswire.com/news/home/20031110005788/en/TSMC-Syndia-Reach-Settlement .	LAMBETH-000295712	
PX0899	Press release entitled "TSMC Sues to Protect Customers and Invalidate Syndia Corporation Patents; US District Court Suit Alleges Patents are Invalid and Not Infringed," from BusinessWire, dated 6/23/2003, available at https://www.businesswire.com/news/home/20030623005359/en/TSMC-Sues-Protect-Customers-Invalidate-Syndia-Corporation	LAMBETH-000256760	
PX0900	Webpage printout entitled "University Relationships; Finding Solutions in University Labs," from Seagate, dated 12/3/2002, available at https://web.archive.org/web/20021203231936/http://www.seagate.com:80/newsinfo/technology/university/index.html (earliest archive capture).	LAMBETH-000295714	
PX0901	Presentation entitled "Venus Perpendicular Concept Review," by Seagate, dated 2/20/2004.	SEA02395215	SEA02395359
PX0902	Information page for Vertimag Systems Corporation, from Open Corporates, available at https://opencorporates.com/companies/us_mn/fb096086-a0d4-e011-a886-001ec94ffe7f (California corporation incorporated on January 21, 1980).	LAMBETH-000295730	LAMBETH-000295731
PX0903	Video entitled "Videography of Sir Robin Saxby, 2012 recipient of the GSA Morris Chang Lifetime Achievement Award," uploaded to Youtube by Arm on 2/5/2012, available at https://www.youtube.com/watch?v=X8C1GEmvJJE	LAMBETH-000301447	LAMBETH-000301449
PX0904	Webpage printout entitled "Vol.2 Magnetic head technology paved the way for smaller hard disk drives with higher storages capacities," TDK Techno Magazine – The Wonders of Electromagnetism, dated 2014, available at http://www.global.tdk.com/techmag/inductive/vol2/index.htm	LAMBETH-000306881	LAMBETH-000306882
PX0905	Manual entitled "WD Caviar Blue XL500S, SATA Hard Drives," by Western Digital, dated 10/21/2010, available at http://wfcache.advantech.com/www/certified-peripherals/documents/96hd320g-st-wd7k_datasheet.pdf .	LAMBETH-000274931	LAMBETH-000274989
PX0906	Review entitled "WD Caviar RE2 WD4000YR and Caviar SE16 WD4000KD," by iXBT Labs, dated 5/25/2006, available at http://ixbtlabs.com/articles2/storage/wd4000.html .	LAMBETH-000289906	LAMBETH-000289922
PX0907	Webpage printout entitled "WD Ships Industry's Highest Capacity Mobile Hard Drive for Notebooks and Portable Storage Devices," by Ryan Shrout from PC Perspectives, 5/21/2007, available at https://www.pcper.com/news/Storage/Western-Digital-Announces-250GB-Scorpio-25-HDD .	LAMBETH-000289923	LAMBETH-000289924
PX0908	Transcript entitled "WDC – Q2 2005 Western Digital Corp. Earnings Conference Call" by Thomson StreetEvents, dated 1/27/2005.	LAMBETH-000258999	LAMBETH-000259012
PX0909	Press release entitled "Welsh & Katz Helps Papst Licensing Reach Agreement with Seagate Technology," from BusinessWire, dated 9/4/2007, available at https://www.businesswire.com/news/home/20070904005963/en/Welsh-Katz-Helps-Papst-Licensing-Reach-Agreement .	LAMBETH-000295732	LAMBETH-000295733
PX0910	Report entitled "Western Digital Corp. – Best in Class in a Volatile Landscape," from UBS Investment Research, dated 9/14/2009.	LAMBETH-000306103	LAMBETH-000306136

PX #	Description	BatesBegin	BatesEnd
PX0911	Webpage printout entitled "Western Digital Corporation 2nd Quarter Fiscal 2001 Financial Results Conference Call Remarks," from Western Digital, dated 1/25/2001, available at https://web.archive.org/web/20010305143348/http://www.wdc.com:80/invest/q201remarks.html	LAMBETH-000259169	LAMBETH-000259174
PX0912	Transcript entitled "Western Digital F107 (Qtr End 6/29/07) Earnings Call Transcript," Seeking Alpha, dated 7/26/2007.	LAMBETH-000266944	LAMBETH-000266962
PX0913	Transcript entitled "Western Digital F1Q08 (Qtr End 9/28/07) Earnings Call Transcript," Seeking Alpha, 11/1/2007.	LAMBETH-000302005	LAMBETH-000302028
PX0914	Transcript entitled "Western Digital F3Q07 (Qtr End 3/30/07) Earnings Call Transcript," Seeking Alpha, 4/26/2007	LAMBETH-000306185	LAMBETH-000306207
PX0915	Press release entitled "Western Digital intros its first perpendicular hard drive," by WD, via Tom's Hardware, dated 9/13/2006, available at https://www.tomshardware.com/news/wd-pmr-drive,3456.html	LAMBETH-000306208	LAMBETH-000306211
PX0916	Webpage printout entitled "Western Digital Ships Scorpio 160GB Mobile Hard Drives," from TechPowerup, dated 9/12/2006, https://www.techpowerup.com/17088/western-digital-ships-scorprio-160gb-mobile-hard-drives	LAMBETH-000306220	
PX0917	Pamphlet entitled "Perpendicular Magnetic Recording Technology," by HGST, dated 2006, available at https://www.hgst.com/sites/default/files/resources/PMR_white_paper_final.pdf .	LAMBETH-000274990	LAMBETH-000274993
PX0918	Webpage printout entitled "Wickersham is Seagate president," from DQ Channels, dated 9/18/2006, available at http://www.dqchannels.com/wickersham-is-seagate-president/ .	LAMBETH-000274035	LAMBETH-000274035
PX0919	LinkedIn of William Hudson, available at https://www.linkedin.com/in/william-hudson-b597766/ (Executive Vice President, January 2003 – January 2008).	LAMBETH-000302130	LAMBETH-000302131
PX0920	Bio of William L. Hudson, from Bloomberg, available at https://www.bloomberg.com/research/stocks/people/person.asp?personId=187502&privcapId=3738520	LAMBETH-000274038	LAMBETH-000274038
PX0921	Bio of Kimberley Chen Nobles, from World Intellectual Property Organization, available at http://www.wipo.int/export/sites/www/amc/en/domains/panel/profiles/nobles-kimberleychen.pdf .	LAMBETH-000302132	LAMBETH-000302135
PX0922	Bio of Yiran Chen, available at https://sites.google.com/site/yiranchen/profile .	LAMBETH-000302242	LAMBETH-000302243
PX0923	Report entitled "1991 Rodime Annual Report," by Rodime, dated 4/29/2002 available at https://www.thegazette.co.uk/company/SC069140/filing-history/MDA0NTg1NTE5NWfkaXF6a2N4 .	LAMBETH-000307165	LAMBETH-000307190
PX0924	Report entitled "1995 Censtor Corp. 10-K," by US SEC, filed 9/28/1995.	LAMBETH-000275918	LAMBETH-000275999
PX0925	Report entitled "1995 Censtor Corp. 10-K/A Amendment No. 2" by US SEC, filed 6/11/1996, available at https://www.sec.gov/Archives/edgar/data/932094/0000891618-96-000844.txt .	LAMBETH-000307191	LAMBETH-000307211
PX0926	Report entitled "1995 Censtor Corp. 10-K/A Amendment No. 2," by US SEC, filed 12/18/1995.		
PX0927	Report entitled "1996 Read-Rite Corp. 10-K," by US SEC dated 9/30/1996, available at http://www.secinfo.com/dr6nd.931h.htm#1stPage .	LAMBETH-000307212	LAMBETH-000307264
PX0928	Report entitled "1997 Censtor Corp. 10-K," dated 6/30/1997, available at https://www.sec.gov/Archives/edgar/data/932094/0000891618-97-003947.txt	LAMBETH-000307265	LAMBETH-000307312
PX0929	Report entitled 2000 Seagate Technology, Inc. 10-K405, filed 8/23/2000, available at http://pdf.secdatabase.com/61/0001095811-00-002989.pdf .	LAMBETH-000282822	LAMBETH-000283007
PX0930	Report entitled "2001 TDK Annual Report," by TDK, dated 3/2001 available at http://www.global.tdk.com/ir/ir_library/annual/pdf/aab40200.pdf	LAMBETH-000259587	LAMBETH-000259646
PX0931	Report entitled "2004 TDK Annual Report," by TDK, dated 3/2004, available at http://www.global.tdk.com/ir/ir_library/annual/pdf/aab40500.pdf	LAMBETH-000259647	LAMBETH-000259722
PX0932	Report entitled "2005 TDK Annual Report," by TDK, dated 3/2005, available at http://www.global.tdk.com/ir/ir_library/annual/pdf/aab40600.pdf	LAMBETH-000274217	LAMBETH-000274296
PX0933	Report entitled "2006 Seagate Technology, LLC 10-K," available at http://files.shareholder.com/downloads/SEA/6015563387x0xS1193125-06-188012/1137789/filing.pdf		
PX0934	Report entitled "2007 TDK Annual Review," by TDK, dated 3/31/2007 available at http://www.global.tdk.com/ir/ir_library/annual/pdf/lib20200.pdf .	LAMBETH-000290311	LAMBETH-000290359
PX0935	Report dated "2008 TDK Annual Report," by TDK, dated 3/31/2004, available at http://www.global.tdk.com/ir/ir_library/annual/pdf/lib20300.pdf .	LAMBETH-000265429	LAMBETH-000265477
PX0936	Report entitled "2009 TDK Annual Report," by TDK, dated 3/31/2009, available at http://www.global.tdk.com/ir/ir_library/annual/pdf/lib20400.pdf .	LAMBETH-000265478	LAMBETH-000265645
PX0937	Report entitled "2010 Seagate Technology, LLC 10-K," by Seagate, filed 8/20/2010, available at http://files.shareholder.com/downloads/SEA/6015563387x0xS1047469-10-7649/1137789/filing.pdf .	LAMBETH-000283008	LAMBETH-000283259
PX0938	Report entitled "2014 TDK Annual Report – Special Feature: Nanotech & Thin Film Solutions," by TDK, dated 2014, available at http://www.global.tdk.com/ir/ir_library/annual/2014/html/pdf/feature.pdf .	LAMBETH-000265646	LAMBETH-000265652
PX0939	Report entitled "2015 Julich Institute Annual Report," available at https://issuu.com/fz_juelich/docs/jb_juelich_2015_engl_01-12-201		
PX0940	Document entitled "Hitachi's Overseas Research on Hard Disk Drive," by A. Currie Munce, Ph.D., Jan-Ulrich Thiele, Ph.D., for Hitachi Review, Vol. 55, dated 12/2006, available at http://www.hitachi.com/rev/pdf/2006/r2006_dec_002.pdf .	LAMBETH-000298061	LAMBETH-000298065
PX0941	Report entitled "Acacia Research Corp. 10-Q" by Acacia, dated 3/31/2011, available at http://getfilings.com/sec-filings/110429/ACACIA-RESEARCH-CORP_10-Q/ .	LAMBETH-000286465	LAMBETH-000286514
PX0942	Document entitled "Acacia Research Corporation (ACTG) Daily Stock Price Data," from Bloomberg.		
PX0943	Document entitled "These alliances aren't forever," by Alan H. Melnicoe, from Computerworld, dated 3/2/1992.		
PX0944	Document entitled "The Origin, Development and Future of Spintronics," by Albert Fert, from NobelPrize.org, dated 12/8/2007, available at https://www.nobelprize.org/nobel_prizes/physics/laureates/2007/fert_lecture.pdf .	LAMBETH-000295644	LAMBETH-000295665

PX #	Description	BatesBegin	BatesEnd
PX0945	Diagram entitled "The origin, the development and the future of spintronics," by Albert Fert, from NobelPrize.org, dated 12/8/2007, available at https://www.nobelprize.org/nobel_prizes/physics/laureates/2007/fert-slides.pdf (Dr. Fert's Nobel Lecture slides).	LAMBETH-000256654	LAMBETH-000256699
PX0946	Document entitled "History of Magnetic Disk Storage Based on Perpendicular Magnetic Recording," by Albert S. Hoagland, from IEEE Transactions on Magnetics, dated 7/2003, available at http://www.mdhc.scu.edu/MDHC/NAPMRC_HOAGLAND.pdf .	LAMBETH-000298019	LAMBETH-000298023
PX0947	Document entitled "Report of the Workshop on Magnetic Information Technology – MINT –" by Alfred B. Bortz, Susan B. Dunkle for the U.S. Department of Education, dated 6/24/1983, available at https://files.eric.ed.gov/fulltext/ED242543.pdf	LAMBETH-000290669	LAMBETH-000290711
PX0948	Document entitled "Let the Games Begin: Incentive to Innovation in the New Economy of Intellectual Property Law," by Amy L. Landers, from Santa Clara Law Review, dated 2006	LAMBETH-000309529	LAMBETH-000309599
PX0949	Presentation entitled "Analyst and Investor Meeting," by Seagate, dated 9/7/2007, available at https://web.archive.org/web/20101129172815/http://seagate.com/staticfiles/docs/pdf/corporate/stx-2007-analyst-day-slides.zip .	LAMBETH-000275778	LAMBETH-000275896
PX0950	Document entitled "Tough Competition Pressures Seagate," by Andrew Farrell, from Forbes, dated 4/18/2007, available at https://www.forbes.com/2007/04/18/seagate-hard-update-markets-equity-cx_af_0418markets14.html#3f3a7475148e .	LAMBETH-000272897	LAMBETH-000272898
PX0951	Document entitled "America's Fastest-Growing Company – On the verge of becoming a billion-dollar baby, disk drive maker Conner Peripherals uses nonstop innovation to keep rivals – including the Japanese – at bay," by Andrew Kupfer, Patricia A. Langan, from Fortune, dated 8/30/1990, available at http://archive.fortune.com/magazines/fortune/fortune_archive/1990/08/13/73904/index.htm .	LAMBETH-000292758	LAMBETH-000292759
PX0952	Newspaper article entitled "A Novel Idea: Customer Satisfaction," by Andrew Pollack, from The New York Times, dated 5/27/1990, available at http://www.nytimes.com/1990/05/27/business/a-novel-idea-customer-satisfaction.html?pagewanted=all	LAMBETH-000265661	LAMBETH-000265668
PX0953	Webpage printout entitled "Market Views: Hard Drive Shipments Drop by Nearly 17% in 2015," by Anton Shilov, from AnandTech, dated 3/2/2016, available at http://www.anandtech.com/show/10098/market-views-2015-hard-drive-shipments .	LAMBETH-000283753	LAMBETH-000283764
PX0954	Webpage printout entitled "Seagate to Shut Down One of Its Largest HDD Assembly Plants," by Anton Shilov, from AnandTech, dated 1/13/2017, available at https://www.anandtech.com/show/11037/seagate-to-shut-down-one-of-its-largest-hdd-assembly-plants .	LAMBETH-000294770	LAMBETH-000294774
PX0955	Webpage printout entitled "Seagate: Hard Disk Drives Set to Stay Relevant for 20 Years," by Anton Shilov, from AnandTech, dated 12/18/2015, available at http://www.anandtech.com/show/9858/seagate-hard-disk-drives-set-to-stay-relevant-for-20-years .	LAMBETH-000271635	LAMBETH-000271642
PX0956	Webpage printout entitled "The Evolution of HDDs in the Near Future: Speaking with Seagate CTO, Mark Re," by Anton Shilov, from AnandTech, dated 7/6/2016, available at http://www.anandtech.com/show/10470/the-evolution-of-hdds-in-the-near-future-speaking-with-seagate-cto-mark-re	LAMBETH-000272162	LAMBETH-000272165
PX0957	Agreement entitled "Agreement for Purchase and Sale of Assets by and Between Read-Rite Corporation and Censtor Corporation" between Read-Rite and Censtor.	LAMBETH-000308879	LAMBETH-000308958
PX0958	Document entitled "TDK Q&A, Q.9," dated 4/28/2016, available at http://www.global.tdk.com/ir/ir_events/conference/2016/4q_qa.htm .	LAMBETH-000292882	LAMBETH-000292883
PX0959	Document entitled "Spin-outs: knowledge diffusion through employee mobility," by April Mitchell Franco, Darren Filson, from RAND Journal of Economics, dated 2006, available at http://www-2.rotman.utoronto.ca/facbios/file/Rand.pdf .	LAMBETH-000271722	LAMBETH-000271741
PX0960	Document entitled "Hard Disk Drive Industry in Thailand: International Production Networks versus Industrial Clusters," by Archanun Kohpaiboon, dated 2009, available at https://editorialexpress.com/cgi-bin/conference/download.cgi?db_name=serc2009&paper_id=183 .	LAMBETH-000296549	LAMBETH-000296578
PX0961	Newspaper article entitled "BITS; Seagate Gains In Data Market," by Ashlee Vance, from The New York Times, dated 1/25/2010, available at http://query.nytimes.com/gst/fullpage.html?res=9C05E1D91139F936A15752C0A9669D8B63 .	LAMBETH-000307573	LAMBETH-000307573
PX0962	Document entitled "Trends in HDDs for Consumer Electronics Usage and their Supporting Technologies," by Atsushi Saito, Hiroshi Nishida, from Hitachi Review, dated 1/2007, available at http://www.hitachi.com/rev/pdf/2007/r2007_01_101.pdf .	LAMBETH-000301389	LAMBETH-000301393
PX0963	Blog post entitled "A brief History of Areal Density," by Barry Whyte, from IBM, dated 9/18/2009, available at https://www.ibm.com/developerworks/community/blogs/storagevirtualization/entry/a_brief_history_of_access_density?lang=en .	LAMBETH-000307404	LAMBETH-000307406
PX0964	Document entitled "Breakthrough: How Great Companies Set Outrageous Objectives and Achieve Them," by Bill Davidson, dated 2004.	LAMBETH-000283321	LAMBETH-000283321
PX0965	Document entitled "Minn. Supreme Court Oks \$630M Seagate Trade Secret Win," by Bill Donahue, from LAW360, dated 10/8/2014, available at https://www.law360.com/articles/585670/print?section=appellate .	LAMBETH-000288605	LAMBETH-000288606
PX0966	Press release entitled "Singapore as Nerve Center for High-Tech Manufacturing Supply Chains," by Bill White, dated 3/30/2004, available at http://www.nas.gov.sg/archivesonline/speeches/view.html?filename=2004033001.htm	LAMBETH-000271717	LAMBETH-000271721
PX0967	Presentation entitled "The Transition to Perpendicular Magnetic Recording," by Bob Scranton, for HGST, dated 12/7/2006, available at http://www.idema.org/wp-content/downloads/1621.pdf	LAMBETH-000306860	LAMBETH-000306880
PX0968	Document entitled "Patentee Overcompensation and the Entire Market Value Rule," by Brian J. Love, from Stanford Law Review, dated 1/1/2007, available at www.stanfordlawreview.org/system/files/articles/Love.pdf .	LAMBETH-000296728	LAMBETH-000296760
PX0969	Document entitled "How Tom Mitchell Lays Out the Competition," by Brian O'Reilly, from Fortune, dated 3/30/1987, available at http://archive.fortune.com/magazines/fortune/fortune_archive/1987/03/30/68821/index.htm .	LAMBETH-000283734	LAMBETH-000283735

PX #	Description	BatesBegin	BatesEnd
PX0970	Document entitled "The Hard Times in Hard-Disk Drives," by Bro Uttal, from Fortune, dated 11/25/1985, available at http://archive.fortune.com/magazines/fortune/fortune_archive/1985/11/25/66644/index.htm .		
PX0971	Transcript entitled "Broadcom Corp. v. Emulex Corp., et al., Case No. 8:09-cv-01058-JVS-AN (C.D. Cal.), Dkt. 871-1" dated 10/7/2011		
PX0972	Document entitled "Open Innovation and Intellectual Property Rights – The Two-edged Sword," by Bronwyn H. Hall, for University of California – Berkeley, dated 2009, available at https://eml.berkeley.edu/~bhhall/papers/BHH09_IPR_openinnovation.pdf .	LAMBETH-000270619	LAMBETH-000270623
PX0973	Document entitled "From Assets to Profits: Competing for IP Value and Return," by Bruce Berman, dated 2009.		
PX0974	Transcript entitled "Carnegie Mellon University v. Marvell Technology Group, Ltd, et al., Civil Action No. 2:09-cv-00290-NBF (W.D. Penn.), Dkt. 710," dated 12/10/2012.		
PX0975	Transcript entitled "Carnegie Mellon University v. Marvell Technology Group, Ltd, et al., Case No. 2:09-cv-00290-NBF (W.D. Pa.)," dated 12/5/2012,		
PX0976	Transcript entitled "Carnegie Mellon University v. Marvell Technology Group, Ltd, et al., Case No. 2:09-cv-00290-NBF (W.D. Pa.)," dated 12/5/2012		
PX0977	Transcript entitled "Carnegie Mellon University v. Marvell Technology Group, Ltd, et al., Civil Action No. 2:09-cv-00290-NBF (W.D. Penn.), Dkt. 823" dated 3/25/2013.		
PX0978	Transcript entitled "Carnegie Mellon University v. Marvell Technology Group, Ltd, et al., Civil Action No. 2:09-cv-00290-NBF (W.D. Penn.), Docket No. 709"		
PX0979	Transcript entitled "Carnegie Mellon University v. Marvell Technology Group, Ltd, et al., Civil Action No. 2:09-cv-00290-NBF (W.D. Penn.), Memorandum Opinion dated March 31, 2014, pp. 40-41 Docket No. 707"		
PX0980	Transcript entitled "Carnegie Mellon University v. Marvell Technology Group, Ltd. and Marvell Semiconductor, Inc., Brief of Amici Curiae Broadcom Corporation, Aruba Networks, Inc., Dell Inc., Google Inc., Hewlett-Packard Corporation, Limelight Networks, Inc., Microsoft Corporation, SAS Institute, Inc., and Xilinx, Inc. Supporting Appellants on the Worldwide Damages Issue, dated 8/11/2014, available at http://www.marvell.com/company/legal/assets/As%20Filed%20Tech%20Company%20amicus%20brief.pdf .		
PX0981	Transcript entitled "Carnegie Mellon University v. Marvell Technology Group, Ltd., et al., Civil Action No. 2:09-cv-00290-NBF (W.D. Pa.), Dkt. 901," dated 9/23/2013.		
PX0982	Transcript entitled "Carnegie Mellon University v. Marvell," dated 12/12/2012		
PX0983	Transcript entitled "Case No COMP/M.6203 – Western Digital Ireland/Viviti Technologies," by The European Commission, dated 11/23/2011, available at http://ec.europa.eu/competition/mergers/cases/decisions/m6203_20111123_20600_3212692_EN.pdf		
PX0984	CV of Catharine M. Lawton, dated 4/30/2018		
PX0985	Transcript entitled "Catharine M. Lawton Testimony, Exhibit C to 4/30/2018 Expert Report of Catharine M. Lawton		
PX0986	Document entitled "Censor Corp. Schedule 14A" filed on 8/5/1997, available at https://www.bamsec.com/filing/89161897003155?cik=932094 .	LAMBETH-000307599	LAMBETH-000307613
PX0987	Report entitled "Censtor Corp. 10-Q" for the period ended 12/31/1997, available at https://www.sec.gov/Archives/edgar/data/932094/0000891618-98-000575.txt .	LAMBETH-000276290	LAMBETH-000276305
PX0988	Report entitled "Censtor Corp. 10-Q" for the period ended 3/31/1999, available at https://www.sec.gov/Archives/edgar/data/932094/0000891618-99-002268.txt .	LAMBETH-000308434	LAMBETH-000308441
PX0989	Report entitled "Censtor Corp. 8-K," dated 8/1/1996, available at https://www.sec.gov/Archives/edgar/data/932094/0000891618-96-001506.txt .	LAMBETH-000308442	LAMBETH-000308443
PX0990	Document entitled "Censtor Corp. Def 14A" filed 7/1/1996, available at https://www.sec.gov/Archives/edgar/data/932094/0000891618-96-001090.txt .	LAMBETH-000276331	LAMBETH-000276410
PX0991	Form entitled "Censtor Corp. Form 10" by Censtor-Fujitsu, filed on 10/26/1994.	LAMBETH-000260377	LAMBETH-000260794
PX0992	Document entitled "Censtor Corp. Schedule 14A" filed on 6/11/1996, available at https://www.sec.gov/Archives/edgar/data/932094/0000891618-96-000845.txt .	LAMBETH-000276909	LAMBETH-000276962
PX0993	Document entitled "Drive technology holds promise—if you can get your hands on it," by Charles Babcock, from Computerworld, dated 7/31/1995.	LAMBETH-000277666	LAMBETH-000277666
PX0994	Webpage printout entitled "Disk Maker Rodime Plc Slashes Losses," by Charles Lunan, from SunSentinel, dated 4/3/1991, available at http://articles.sun-sentinel.com/1991-04-03/business/9101170117_1_rodime-plc-drives-disk	LAMBETH-000277662	LAMBETH-000277665
PX0995	Document entitled "International Economics, Theory, Application, and policy," by Charles Van Marrewijk, dated 2007.	LAMBETH-000298543	LAMBETH-000298543
PX0996	Presentation entitled "Creating an Innovation Ecosystem," by Thomas W. Peterson, for the National Science Foundation, dated 2009, available at http://www.nseresearch.org/2009/presentations/Day2_Peterson.ppt .	LAMBETH-000283679	LAMBETH-000283728
PX0997	Webpage printout entitled "WD slips bullet between teeth, gets ready to hand \$706m to Seagate," by Chris Mellor, from The Register, dated 10/30/2013, available at https://www.theregister.co.uk/2013/10/30/wd_prepares_for_706_million_payment_to_seagate/ .	LAMBETH-000306099	LAMBETH-000306102
PX0998	Web printout entitled "Western Digital CTO Martin Fink refused El Reg's questions, but did write this sweet essay; On storage-class memory and leaving HP Labs," by Chris Mellor, from The Register, dated 3/9/2017, available at https://www.theregister.co.uk/2017/03/09/martin_fink_speaks/ .	LAMBETH-000301997	LAMBETH-000302004
PX0999	Document entitled "Magnetoresistive (MR) Heads and the Earliest MR Head-Based Disk Drives: Sawmill and Corsair," by Christopher H. Bajorek, from Computer History Museum, dated 11/2014, available at http://s3.computerhistory.org/groups/magnetoresistive-heads.pdf .	LAMBETH-000288066	LAMBETH-000288076
PX1000	Webpage printout entitled "Seagate shifts into RD overdrive," by Claire Tristram, from EDN, dated 8/1/1998, available at https://www.edn.com/electronics-news/4355243/Seagate-shifts-into-RD-overdrive	LAMBETH-000290825	LAMBETH-000290833

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PX1002	Document entitled "Exploring the Limited of the Technology S-Curve. Part I: Component Technologies," by Clayton M. Christensen, from Production and Operations Management, dated 1992, available at https://pdfs.semanticscholar.org/31b5/f477879457c513aba2327c8225046c2a3d96.pdf .	LAMBETH-000296228	LAMBETH-000296251
PX1003	Document entitled "Strategies for Survival in Fast-Changing Industries," by Clayton M. Christensen, Fernando F. Suarez, James M. Utterback, from Institute for Operations Research and the Management Sciences, dated 12/1998, available at http://kendlevidian.pbworks.com/f/Christensen,%2BSuarez,%2BUtterback.pdf (based on study of the period 1973- 1990).	LAMBETH-000271748	LAMBETH-000271762
PX1004	Webpage printout entitled "The Innovator's Solution, Creating and Sustaining Successful Growth," by Clayton M. Christensen, Michael E. Raynor, from Fast Company, dated 6/2002.	LAMBETH-000258915	LAMBETH-000258920
PX1005	Book excerpt entitled "The Innovator's Dilemma: When New Technologies Cause Great Firms to Fail," by Clayton M. Christensen, dated 1997.	LAMBETH-000272700	LAMBETH-000272878
PX1006	Document entitled "Rodime continues drive suits," by Clinton Wilder, from Computerworld, dated 3/30/1987.	LAMBETH-000290712	LAMBETH-000290712
PX1007	U.S. Patent No. 5,693,426.		
PX1008	Memo dated 8/31/1999 from David N. Lambeth to Robert M. White, Director, DSSC; Pradeep K. Khosla, Department Head, ECE; Anthony D. Rollet, Department Head, MSE; John L. Anderson, Dean, CIT, Subject: Formal DSSC Resignation, RE: "Formal DSSC Resignation"	CMU_000004	
PX1009	Memo dated 8/13/1997 from Robert M. White and John L. Anderson to David N. Lambeth, RE: "Feedback on Peer Review of Tenured Faculty"	CMU1_002735	
PX1010	Letter date 2/15/2000 from Paul Christiano to David N. Lambeth approving Dr. Lambeth's leave of absence request for academic year 2000-2001	CMU1_002919	
PX1011	Letter date 2/15/2000 from Paul Christiano to David N. Lambeth approving Dr. Lambeth's leave of absence request for academic year 2000-2001	CMU1_002919	
PX1012	Transcript entitled "TDK Corporation v. Lambeth Magnetic Structures LLC, Inter Partes Review No. 2016-00013, U.S. Patent No. 7,128,988, Patent Owner's Preliminary Response to Petition for Inter Partes Review of U.S. Patent No. 7,128,988," dated 1/15/2016.		
PX1013	Document entitled "'Holding Up' and 'Holding Out,'" by Colleen Chien, from Santa Clara University School of Law – Legal Studies Research Papers Series, dated 8/2013, available at https://digitalcommons.law.scu.edu/cgi/viewcontent.cgi?article=1798&context=facpubs	LAMBETH-000298066	LAMBETH-000298095
PX1014	Document entitled "From Arms Race to Marketplace: The Complex Patent Ecosystem and its Implications for the Patent System," by Colleen Chien, from Hastings Law Journal, dated 12/2010, available at https://digitalcommons.law.scu.edu/cgi/viewcontent.cgi?article=1119&context=facpubs	LAMBETH-000296253	LAMBETH-000296313
PX1015	Transcript entitled "Siemens AG v. Seagate Technology, LLC, Case No. 8:06-cv-00788-JVS-AN (C.D. Cal.), Dkt. 763" dated 12/3/2008.		
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PX1017	Document entitled "Compilation of LSI and Agere slide decks," available at https://www.scribd.com/document/367470390/read-channel-overview-part-1		
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PX1020	Magazine article entitled "The Decline and Rise of IBM," by D. Quinn Mills, from MIT Sloan Management Review, dated 7/15/1996, available at https://sloanreview.mit.edu/article/the-decline-and-rise-of-ibm/ .	LAMBETH-000294938	LAMBETH-000294940
PX1021	Study entitled "Deconstructing the Computer, Report of a Symposium," by Dale W. Jorgenson, Charles W. Wessner, Eds., dated 2005.	LAMBETH-000285100	LAMBETH-000285282
PX1022	Webpage printout entitled "The 25 Worst Tech Products of All Time," by Dan Tynan, from PC World, dated 5/26/2006, available at https://www.pcworld.com/article/125772/worst_products_ever.html?page=5 .	LAMBETH-000264954	LAMBETH-000264959
PX1023	Journal excerpt entitled "NPEs And Patent Aggregators—New, Complementary Business Models For Modern IP Markets," by Daniel Papst, from les Nouvelles, dated 6/2013, available at https://www.lesi.org/docs/default-source/InJune2013/Inbook06_13.pdf?sfvrsn=2 .	LAMBETH-000288613	LAMBETH-000288688
PX1024	Book excerpt entitled "U.S. Industry in 2000: Studies in Competitive Performance," by David C. Mowery, Ed., dated 1999, available at https://www.nap.edu/download/6313 .	LAMBETH-000301394	LAMBETH-000301436
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PX1027	Document entitled "From Silicon Valley to Singapore – Location and Competitive Advantage in the Hard Disk Drive Industry," by David G. McKendrick, Richard E. Donner, Stephan Haggard, dated 2000.		
PX1028	Webpage printout entitled "Bermuda firm named in US insider trading case," by David Glovin, Bob Van Voris, from Royal Gazette, dated 12/28/2010, available at http://www.royalgazette.com/article/20101228/BUSINESS/712289951 .	LAMBETH-000306946	LAMBETH-000306948

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PX1030	Document entitled "Profiting from technological innovation: Implications for integration, collaboration, licensing and public policy," by David J. Teece, from Research Policy, dated 1986, available at http://www.politicipublice.ro/uploads/technological_innovation.pdf .	LAMBETH-000299225	LAMBETH-000299245
PX1031	Document entitled "Reflections on 'Profiting from Innovation,'" by David J. Teece, from Research Policy, dated 2006, available at https://pdfs.semanticscholar.org/a2ef/6337a50af13b0bda3e2968a5fcf2c00d31d1.pdf .	LAMBETH-000270964	LAMBETH-000270979
PX1032	Document entitled "The Dynamics of Industrial Capitalism: Perspectives on Alfred Chandler's Scale and Scope," by David J. Teece, from Economic Performance and the Theory of the Firm – The Selected Papers of David J. Teece Volume 1, dated 1998.		
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PX1034	Book excerpt entitled "Managing Intellectual Capital," by David J. Teece, dated 2002.		
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PX1038	Book excerpt entitled "Competing in the Age of Digital Convergence," by David. B. Yoffie, Ed., dated 1997.		
PX1039	Interview entitled "Q&A: Hard-driving Seagate CEO talks about making money in storage," by Dean Takahashi, from VentureBeat, dated 5/21/2008, available at https://venturebeat.com/2008/05/21/qa-hard-driving-seagate-ceo-talks-about-making-money-in-storage/ .	LAMBETH-000283882	LAMBETH-000283886
PX1040	Document entitled "Western Digital Alleges Patent Infringement, Sues san Jose Company," by Dean Takahashi, from Los Angeles Times, dated 3/10/1993, available at http://articles.latimes.com/1993-03-10/business/fi-1310_1_western-digital-disk .	LAMBETH-000301881	
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PX1042	Webpage printout entitled "How we work – Acacia Research," by Acacia, dated 12/7/2017, available at http://acaciaresearch.com/how-we-work/ .		
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PX1049	Interview with James M. Chirico, Jr. entitled Seagate, Senior VP entitled "Interview: From 1-inch drives to Terabyte capacity, it aims to diversity further," by Dr. Jimmy Tang, dated 1/2006		
PX1050	Presentation entitled "A Very Brief History of Perpendicular Media Development," from "Joint Meeting with SCV Technology History Committee," by Dr. Tom Yamashita for IEEE Magnetics Society, dated 11/12/2013, available at https://ewh.ieee.org/r6/scv/mag/MtgSum/Meeting2013_11S_Presentation.pdf .	LAMBETH-000265669	LAMBETH-000265698
PX1051	Document entitled "IBM, Rodime Battling Over 3½-Inch Hard Drive Patent," by Edward Warner, from InfoWorld, dated 6/8/1987.		
PX1052	Presentation entitled "Licensing as a Business," by Emmett J. Murtha, from Fairfield Resources International, dated 7/12/2005, available at https://ipmall.law.unh.edu/sites/default/files/hosted_resources/ALI_Presentations/ALI_2005/Pierce_Law_2005_Licensing%20as%20a%20Business.pdf .	LAMBETH-000263454	LAMBETH-000263490

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PX1053	Presentation entitled "Licensing as a Business," by Emmett J. Murtha, from Fairfield Resources International, dated 7/18/2006, available at https://www.ipmall.info/sites/default/files/hosted_resources/ALI_Presentations/ALI_2006/Pierce_Law_2006_Licensing%20as%20a%20Business.pdf .	LAMBETH-000263491	LAMBETH-000263526
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PX1055	Transcript entitled "Emulex Corporation v. Broadcom Corporation and Fiji Acquisition Corporation, a wholly owned subsidiary of Broadcom Corporation, Complaint for Violations of Securities Laws," dated 5/15/2009, available at https://www.sec.gov/Archives/edgar/data/350917/000089256909000632/a52382aexv99wxayx5yxfy.htm .		
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PX1058	Webpage printout entitled "Western Digital shipping 250GB 2.5-inch SATA hard drive," by Eric Mah, from DigiTimes, dated 5/22/2007, available at http://www.digitimes.com/news/a20070522PR204.html?chid=9 .	LAMBETH-000306212	LAMBETH-000306219
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PX1061	Letter dated 4/24/1998 from Seagate to Mike Y. Chang, dated May 19, 1995 ...	LAMBETH-000303956	LAMBETH-000303959
PX1062	Transcript entitled "Seagate's Second Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's First Set of Interrogatories (Nos. 1-7)," dated 11/11/2016	LAMBETH-000230397	LAMBETH-000230743
PX1063	Transcript entitled "Declaration of David N. Lambeth, Ph.D. in Support of Defendant's Motion to Dismiss" dated 3/11/2016.		
PX1064	Document entitled "Experiments in International Benchmarking of US Research Fields," dated 2000.		
PX1065	Book excerpt entitled "Entrepreneurship, Innovation, and the Growth Mechanism of the Free-Enterprise Economies," by Eytan Sheshinski, Robert J. Strom, William J. Baumol, Eds., dated 2007.		
PX1066	"Patent License Agreement," between James W. White and Seagate, dated 2/11/1999	SEA00184248	SEA00184252
PX1067	Document entitled "Federal Trade Commission and Department of Justice Antitrust Division Roundtables," dated 11/6/2002, available at https://www.ftc.gov/sites/default/files/documents/public_events/competition-ip-law-policy-knowledge-based-economy-hearings/021106ftctrans.pdf		
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PX1069	Book excerpt entitled, "Chapter 24 – Patent Infringement Damages," by Frank, Peter B., CPA, Vincent E. O'Brien, DBA, and Michael J. Wagner, JD, CPA from Litigation Services Handbook: The Role of the Financial Expert, dated 2001.		
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PX1071	Webpage printout entitled "Western Digital and Seagate: 320GB Grudge Match," by Gary Key, from AnandTech, dated 7/27/2006, available at https://www.anandtech.com/show/2052	LAMBETH-000286242	LAMBETH-000286245
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PX1080	Document entitled "Seagate Technology Buyout," by Gregor Andrade, Stuart Gilson, Todd Pulvino, for Harvard Business School, dated 3/12/2002, available at http://116.58.21.27/articles/Seagate%20Technology%20Buyout.pdf .		

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PX1081	Document entitled "Looking back on Censtor and PMRC," by Harold Hamilton, from Journal of Magnetism and Magnetic Materials, dated 2012.	LAMBETH-000279542	LAMBETH-000279544
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PX1084	Document entitled "Headway Technologies, Inc. S-1" by the US SEC, dated 9/2/1999, available at https://www.sec.gov/Archives/edgar/data/1062371/000095013199005176/0000950131-99-005176.txt , https://www.nasdaq.com/markets/ipos/filing.ashx?filingid=736901	LAMBETH-000262599	LAMBETH-000263084
PX1085	Document entitled "Headway Technologies, Inc. S-1" filed 9/2/1999, available at https://www.nasdaq.com/markets/ipos/filing.ashx?filingid=736901 .	LAMBETH-000303722	LAMBETH-000304207
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PX1409	"Questions and Answers with Mark Kryder," Seagate, August 18, 2000, available at https://web.archive.org/web/20000818005433/http://www.seagate.com:80/newsinfo/technology/research/D4b4.html		
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PX1412	Scott Nammacher, ASA, CFA, John Finnerty, Ph.D., Jeffrey Kinrich, CPA/ABV, "Introduction to IP Valuation & Damages Analysis," National Litigation Support Services' Spring Conference, June 10, 2005, available at http://www.empireval.com/sites/default/files/library/SAN_IP_Valuation_and_Damages_Analysis.pdf (
PX1413	Jarosz Report Tab 1		
PX1414	Jarosz Report Tab 2 – Documents Reviewed and/or Relied Upon.		
PX1415	John C. Jarosz, Carla S. Mulhern, Michael Wagner, "The 25% Rule Lives On," Law360, September 8, 2010, available at https://www.law360.com/articles/187507/the-25-rule-lives-on .		
PX1416	Robert Goldscheider, John Jarosz, Carla Mulhern, "Use of the Twenty-Five Percent Rule in Valuing Intellectual Property," Law Explorer, October 11, 2015, available at https://lawexplores.com/use-of-the-twenty-five-percent-rule-in-valuing-intellectual-property/		
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PX1418	Christian Bessy, Eric Brousseau, Stephane Saussier, "Payment Schemes in Technology Licensing Agreements: A Transaction Cost Approach," available at http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.416.5989&rep=rep1&type=pdf .		
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PX1423	Yoriko Morita, "How Valuable Is Your Patent, Really?" LES, June 21, 2017, available at https://cdn.ymaws.com/www.lesusacanada.org/resource/collection/BEEDBDF8-DBD0-4DEA-A9ACD8F50EBD4E5A/2017-06-21_LES_IP_Value_Webinar_v2_notes.pdf (
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PX1428	Christoph Rademacher, "The Enforcement of Patent Rights in Japan," IIP Bulletin, Vol. 20, 2011, available at https://www.iip.or.jp/e/e_summary/pdf/detail2010/e22_09.pdf		
PX1429	Kazuhiro Yamaguchi, "Japanese Patent Litigation and Its Related Statistics – Current Environment and Future Agenda," AIPPI Journal, available at https://www.soei.com/en/wp-content/uploads/sites/2/2016/07/Japanese-Patent-Litigation-and-Its-Related-Statistics.pdf		
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PX1434	Anne Layne-Farrar, "The Patent Damages Gap: An Economist's Review of U.S. Statutory Patent Damages Apportionment Rules," SSRN, January 2017, available at https://www.researchgate.net/publication/315811003_The_Patent_Damages_Gap_An_Economist's_Review_of_US_Statutory_Patent_Damages_Apportionment_Rules		
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PX1437	Michael J. Chapman, Ph.D., John C. Jarosz, "REBUTTAL: It's Not An Inappropriate Reasonable Royalty Rule," Law360, August 21, 2015, available at https://www.law360.com/articles/694171/rebuttal-it-s-not-an-inappropriateresasonable-royalty-rule .		
PX1438	Rick Merritt, "Drive makers' heads spinning as they juggle transitions," EE Times, September 25, 2006, available at https://www.eetimes.com/document.asp?doc_id=1301641 .		
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PX1440	Roger Wood, Hisashi Takano, "Prospects for Magnetic Recording for the next 10 years," HGST, May 10, 2006, available at http://www.idema.org/wp-content/downloads/1535.pdf .		
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PX1442	Patent File History for Shuaigang Xiao, et al., dated 6/4/2015		
PX1443	Information Disclosure Statement	SEA03341755	SEA03341758
PX1444	U.S. Patent Application Publication No. US 2013/0341743 A1	LAMBETH-000236522	LAMBETH-000236527
PX1445	Office Action, Application No. 13/755,072, dated 03/14/2014	SEA03341774	SEA03341784
PX1446	Amendment and Response, Application No. 13/755,072, dated June 6, 2014	SEA03341785	SEA03341793
PX1447	Email from Chad Drown to Christina Finn re: Stipulation Regarding Withdrawn Defenses (October 10, 2018)		
PX1448	Seagate's Responses and Objections to Lambeth Magnetic Structures, LLC's Second Amended Notice of Deposition Pursuant to Fed. R. of Civ. Proc. 30(b)(6), dated February 15, 2018		
PX1449	Plaintiff Lambeth Magnetic Structures, LLC's First Supplemental Responses and Objections to Defendants' First Set of Interrogatories (Nos. 2 and 5), dated February 1, 2017	LAMBETH-000230925	LAMBETH-000230937
PX1450	Seagate's Amended Notice of Subpoena to Testify at Deposition to Acacia Research Corporation Pursuant to Rules 30(b)(6) and 45 (November 16, 2017)		
PX1451	Seagate's Objections and Answers to Lambeth Magnetic Structures, LLC's First Set of Interrogatories to Seagate Defendants (Nos. 1-7), dated August 25, 2016	LAMBETH-000228463	LAMBETH-000228488
PX1452	Seagate's First Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's First Set of Interrogatories (Nos. 1-7), dated September 29, 2016	LAMBETH-000229229	LAMBETH-000229416
PX1453	Seagate's First Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's Second Set of Interrogatories (No. 8), dated August 2, 2017	LAMBETH-000245091	LAMBETH-000245111
PX1454	Seagate's Objections and Answers to Lambeth Magnetic Structures, LLC's Third Set of Interrogatories to Seagate Defendants (Nos. 12-13), dated September 5, 2017	LAMBETH-000245358	LAMBETH-000245380
PX1455	Seagate's Second Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's Second Set of Interrogatories to Seagate Defendants (No. 10), dated September 19, 2017.	LAMBETH-000245401	LAMBETH-000245425
PX1456	Seagate's Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's First Set of Interrogatories to Seagate Defendants (No. 6), dated February 13, 2018	LAMBETH-000246767	LAMBETH-000246780
PX1457	Seagate's Objections and Answers to Lambeth Magnetic Structures, LLC's Sixth Set of Interrogatories to Seagate Defendants (Nos. 24-25), dated February 28, 2018	LAMBETH-000248431	LAMBETH-000248446
PX1458	Seagate's Objections and Answers to Lambeth Magnetic Structures, LLC's First Set of Requests for Admission (Nos. 1-8), dated August 28, 2017	LAMBETH-000245319	LAMBETH-000245329
PX1459	Physical Exhibit: Lambeth Wafer Samples - LS0909		
PX1460	Physical Exhibit: Lambeth Wafer Samples - LS1425		
PX1461	Physical Exhibit: Lambeth Wafer Samples - 17-1c		
PX1462	Physical Exhibit: Lambeth Wafer Samples - 19-2, -3, -4		
PX1463	Physical Exhibit: Box of Lambeth Wafer Samples I		
PX1464	Physical Exhibit: Box of Lambeth Wafer Samples II		
PX1465	Physical Exhibit: Lab Notebook and Notes of David Lambeth - October 1999 (scanned and produced at LAMBETH-000137377)		
PX1466	Physical Exhibit: Lab Notebook and Notes of David Lambeth - January 2000 (scanned and produced at LAMBETH-000147354)		
PX1467	Physical Exhibit: Binders of Sputter Deposition Record Sheets and notes (scanned and produced elsewhere)		
PX1468	Physical Exhibit: Binders of Magnetic Measurements and notes (scanned and produced elsewhere)		
PX1469	Physical Exhibit: Seagate Drive (ST9320320AS (PN: 9EV134)) 320 GB - SN: 5SX0YGG5		
PX1470	Physical Exhibit: Seagate Drive (ST9320320AS (PN: 9EV134)) 320 GB - SN: 5SX1PFPN		
PX1471	Physical Exhibit: Seagate Drive (ST9500325AS (PN: 9HH134)) 500 GB - SN 6VE7XWN2		
PX1472	Physical Exhibit: Seagate Barracuda (ST500DM002) 500 GB Drives		
PX1473	Physical Exhibit: Seagate Constellation ES.2 Desktop Drives		
PX1474	Physical Exhibit: Various Seagate Desktop Drives		
PX1475	Physical Exhibit: Various Seagate Laptop Drives		
PX1476	Physical Exhibit: Soshin Chikazumi, PHYSICS OF FERROMAGNETISM (1997)		
PX1477	Physical Exhibit: D.B. Williams and C.B. Carter, "Transmission Electron Microscopy" (2nd Ed. 2009)		
PX1478	Photos of Equipment used during conception and reduction to practice		
PX1479	Photos of Facilites used for reverse engineering by experts		

PX #	Description	BatesBegin	BatesEnd
PX1480	Photos of Equipment used for reverse engineering by experts		
PX1481	Compilation Disk of Dr. Clark Report Appendix C, Images and Data Files		
PX1482	Compilation Disk of Dr. Clark's diffraction images for S0GPPC, S2MMMC, and SBRD8K samples		
PX1483	Compilation of Dr. Coffey's reverse engineering images for SP2X sample product		
PX1484	Compilation of Dr. Coffey's reverse engineering images for Hybrid-X sample product		
PX1485	Agreement entitled "Agreement," between Lambeth Systems and SBS Magnetics LLC, dated 12/18/2010 [12/6/2017 Deposition of Acacia Research Corp 30(b)(6), Ex. 2]	ARC0000622	ARC0000640
PX1486	Option Agreement between Acacia Research Corp. and Samsung Elecs. Co., Ltd. [12/6/2017 Deposition of Acacia Research Corp 30(b)(6), Ex. 3]	ARC0003093	ARC0003190
PX1487	Printout of website entitled "How we work - Acacia Research," dated 12/7/2017 [12/6/2017 Deposition of Acacia Research Corp 30(b)(6), Ex. 14]		
PX1488	"Samsung/Acacia, Acacia's Lambeth Patent Portfolio," by Acacia Intellectual Property dated 12/21/2010 [12/6/2017 Deposition of Acacia Research Corp 30(b)(6), Ex. 15]	ARC000302	ARC000306
PX1489	Agreement entitled "Settlement Agreement," between Lambeth Systems, SBS Magnetics LLC, and ARC, dated 6/28/2013 [12/6/2017 Deposition of Acacia Research Corp 30(b)(6), Ex. 16]	LAMBETH-000224014	LAMBETH-000224031
PX1490	Email dated 11/28/2010 from David Lambeth to Phillip Mitchell and Steve Wong, RE: SG 500GB HDD Head - PV, Attaching File	ARC0001558	
PX1491	Presentation entitled "Seagate HDD: CS and PV View FIB-TEM Analysis Summary" by Seagate	ARC0001559	ARC0001584
PX1492	Email dated 11/28/2010 from David Lambeth to Phillip Mitchell and Steve Wong, RE: SG 500GB HDD Head - CS part 1, Attaching File	ARC0001585	
PX1493	Presentation entitled "Requirements for Perpendicular Magnetic Recording" by Seagate	ARC0001586	ARC0001612
PX1494	Email dated 11/28/2010 from David Lambeth to Phillip Mitchell and Steve Wong, Re: SG 500GB HDD Head - CS part 2, Attaching File	LAMBETH-000232193	
PX1495	Presentation entitled "Electron Diffraction: CS" by Seagate	LAMBETH-000232194	LAMBETH-000232207
PX1496	Email dated 9/20/2010 from David Lambeth to Dooyoung Lee and Phillip Mitchell, attaching Claim Charts	ARC0001721	
PX1497	Claim chart for U.S. patent no. 7,128,988	ARC0001732	ARC0001734
PX1498	Captures from DSSC Patent list, https://web.archive.org/web/2019*/https://www.dssc.ece.cmu.edu/research/patents.html		
PX1499	Archive.org Authentication Declaration		
PX1500	Captures from DSSC Arbitration Flow Chart, https://web.archive.org/web/20100624163424/http://www.dssc.ece.cmu.edu/images/research/patent-arbitration.gif		
PX1501	Archive.org Authentication Declaration		
PX1502	Printout of website: Bio of David M. Lambeth, dated 4/17/1999, (obtained from Internet Archive on 2/11/2018) [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 3]		
PX1503	Printout of website entitled "Data Storage Systems Center - Carnegie Mellon," dated 8/24/2000 (obtained from Internet Archive on 2/11/2018) [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 4]	LAMBETH-000261583	
PX1504	Printout of website entitled "Data Storage Systems Center Carnegie Mellon, Overview," dated 5/4/2001 (obtained from Internet Archive on 2/11/2018) [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 5]		
PX1505	Document entitled: "DSSC Membership Agreements with Industrial Sponsors" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 6]	CMU1_004190	CMU1_004225
PX1506	Faculty Handbook pages entitled "V. University Policies: Intellectual Property Policy" dated 7/30/1985 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 10]	CMU_002778	CMU_002786
PX1507	Notice of Faculty appointment from CMU to David Lambeth, dated 8/7/89 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 11]	CMU_000058	
PX1508	Collection of Documents RE: David Lambeth's Leave of Absence from Carnegie Mellon University, dated 9/7/1999 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 12]	CMU1_002613	CMU1_002618
PX1509	Memo dated 8/31/1999 from David Lambeth to Robert White, Pradeep Khosla, Anthony Rollet, and John Anderson RE: "Formal DSSC Resignation" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 13]	CMU_000004	
PX1510	Memo dated 2/15/2000 from Office of Provost of CMU to David Lambeth approving leave of absence [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 15]	CMU1_002919	
PX1511	Email dated 1/13/2000 from David Lambeth to Pradeep Khosla, RE: "Fwd: Annual Report" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 20]	LAMBETH-000140350	LAMBETH-000140351
PX1512	U.S. Patent No. 6,248,416 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 22]	CMU22	
PX1513	Memo dated 2/3/1999 from Rebecca Turley To Thomas Eagan RE: "Invention Disclosure 97-103" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 23]	CMU1_001340	
PX1514	Document entitled "Invention 1997-103 Sophia" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 24]	CMU1_001994	
PX1515	E-mail dated 6/5/1997 from Meg Stanko to David Lambeth RE: "Disclosures and Grant funding" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 25]	CMU1_001521	CMU1_001525
PX1516	Document entitled "Disclosure of Invention," signed by David Lambeth, Wei Yang, and David laughlin, dated 5/30/1997 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 26]	CMU1_003254	CMU1_003371
PX1517	Memo from David Lambeth to Marian Kovalchik, RE: "1997 Seagate research grant" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 27]	LAMBETH-000211586	

PX #	Description	BatesBegin	BatesEnd
PX1518	Memo dated 5/17/1999 from David Lambeth to Marian Kovalchik, RE: Seagate - Non-Overhead Grant Support" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 28]	LAMBETH-000147880	
PX1519	Document entitled "Seagate Technology, Lifetime Giving as of 10/16/2017," dated 10/16/2017 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 29]	CMU1_003935	CMU1_003940
PX1520	Document entitled "DSSC Associate Member Advisory Board Meeting Minutes," dated 10/2/1996	CMU1_004250	
PX1521	Letter from James Williams, Jr. to DSSC Thrust Leaders, RE: "DSSC Director's Meeting Format," dated 8/12/1998 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 34]	CMU1_004463	CMU1_004464
PX1522	E-mail dated 8/11/1998 from James Williams to David Lambeth, RE: "Walter DeForest Contact Info" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 35]	CMU1_004468	
PX1523	E-mail dated 8/19/1998 from James Williams to David Lambeth, RE: "Walter DeForest Contact Info" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 36]	CMU1_004465	CMU1_004467
PX1524	Memo dated 3/19/1999 from Robert White to James Williams RE: "Concerns - Personal and Confidential" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 37]	CMU1_004457	CMU1_004458
PX1525	Letter dated 5/6/1999 from Robert White to DSSC Faculty, Staff, and Students RE: "DSSC Intellectual Property, Consulting and Conflict of Interest Application Guidelines," Revised 7/7/1999 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 41]	LAMBETH-000147999	LAMBETH-000148007
PX1526	Document entitled "Intellectual Property Policy Agreement Form" signed by Jason Wolf, dated 1/11/1990 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 42]	CMU1_003941	
PX1527	Letter dated 8/10/1998 from Mark Kryder to DSSC Faculty, Staff and Students, RE: "Intellectual Property, Consulting and Conflict of Interest Application Guidelines" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 50]	CMU1_004182	CMU1_004189
PX1528	Letter dated 11/11/1988 from Roger Van Heyningen (Kodak) to Prof. Stephen W. Director (CMU) Assessing the capabilities of Dr. David N. Lambeth [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 51]	CMU_000026	CMU_000027
PX1529	Letter dated 1/21/1997 from David Lambeth to Mark Kryder, RE: "Typical License Fees For Data Storage Patents" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 52]	CMU1_002468	CMU1_002470
PX1530	Letter dated 7/13/2001 from Marilyn Wray to Tom Eagen, RE: "Invention Disclosure # 97-103" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 54]	CMU1_003928	
PX1531	Document entitled "Disclosure of Invention [97-069]" signed by David Lambeth, Li-Lien Lee, and D.E. Laughlin, dated 2/8/1997 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 55]	CMU1_003022	CMU1_003041
PX1532	Letter dated 8/7/1997 from David Lambeth to Mark Kryder, M. Coticchia, TTO, RE: "Invention Disclosure: Near Field MO-SIL Transducer" [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 56]	CMU1_003042	CMU1_003058
PX1533	Document entitled "Disclosure of Invention [97-105]," signed by David Lambeth, Wei Yang, Heng Gong, and David Laughlin, dated 5/18/1997 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 57]	CMU1_003180	CMU1_003187
PX1534	Document entitled "Disclosure of Invention [97-103]," signed by David Lambeth, Heng Gong, and David Laughlin, dated 5/26/1997 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 58]	CMU1_003059	CMU1_003066
PX1535	Document entitled "Disclosure of Invention [97-104]," signed by David Lambeth, Jie Zou, Heng Gong, and David Laughlin, dated 5/18/1997 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 59]	CMU1_003119	CMU1_003179
PX1536	Document entitled "Advancing the State-of-the-Art in Magnetic and Optical Recording; Fall Technical Review Presentations," dated 10/1/2002 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 60]	CMU_000103	CMU_000316
PX1537	Document entitled "Accelerating U.S. Leadership in Data Storage; Spring Technical Review Presentations," dated 3/6/2001 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 61]	CMU_001896	CMU_002114
PX1538	Document entitled "Fall Technical Review Presentations," dated 10/10/2000 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 62]	CMU_001335	CMU_001552
PX1539	Document entitled "Spring Technical Review Presentations," dated 3/7/2000 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 63]	CMU_002115	CMU_002349
PX1540	Document entitled "Eighth Year NSF Site Review Presentations," dated 3/3/1998 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 64]	CMU_000317	CMU_000618
PX1541	Record from Carnegie Mellon University Human Resources for David Lambeth, dated 11/18/2016 [2/15/2018 Deposition of Carnegie Mellon University 30(b)(6) (Wooldridge, Robert), Ex. 65]	CMU1_002446	CMU1_002448
PX1542	Letter dated 8/10/1999 from John L. Anderson to Paul Christiano, RE: Request for leave of absence request	CMU_000005	
PX1543	Letter dated 9/09/1999 from Pradeep Khosla to John Anderson, RE: leave for Dave Lambeth	CMU_000006	
PX1544	Faculty Leave of Absence Program Application Form -- AY99-00	CMU_000007	CMU_000008
PX1545	Letter dated April 1999 from David Lambeth to R M White, RE: Leave of Absence during 8/31/99 to 9/1/00	CMU_000009	
PX1546	Letter dated 9/7/1999 from Paul Christiano to David Lambeth, RE: Approved leave of absence request	CMU_000035	CMU_000040
PX1547	Employee Leave of Absence History screen, dated 11/21/2016	CMU1_002459	CMU1_002459

PX #	Description	BatesBegin	BatesEnd
PX1548	Document entitled "Subpoena to Produce Documents, Information, or Objects or to Permit Inspection of Premises in a Civil Action" LMS v. Seagate, dated 10/26/2017 [12/12/2017 Deposition of Jason Wolf, Ex. 1]		
PX1549	Resume of Jason Wolf [12/12/2017 Deposition of Jason Wolf, Ex. 2]	WOLF-0004052	
PX1550	Document entitled "Textured Materials" by Jason Wolf, dated 9/7/2009 [12/12/2017 Deposition of Jason Wolf, Ex. 3]		
PX1551	Document entitled "Carnegie Mellon University Position Description" for Jason Wolf [12/12/2017 Deposition of Jason Wolf, Ex. 4]	WOLF-0004049	WOLF-0004051
PX1552	E-mail dated 11/1/2000 from David Lambeth to Jason Wolf, RE: "XRD" [12/12/2017 Deposition of Jason Wolf, Ex. 5]	LAMBETH-000154506	
PX1553	E-mail dated 11/2/2000 from Jason Wolf to David Lambeth, RE: "Re: XRD" [12/12/2017 Deposition of Jason Wolf, Ex. 6]	LAMBETH-000147332	
PX1554	E-mail dated 11/2/2000 from David Lambeth to Jason Wolf, RE: "Friday XRD Measurements" [12/12/2017 Deposition of Jason Wolf, Ex. 7]	LAMBETH-000147335	
PX1555	E-mail dated 11/2/2000 from Jason Wolf to David Lambeth, RE: "Re: Friday XRD Measurements" [12/12/2017 Deposition of Jason Wolf, Ex. 8]	LAMBETH-000147336	
PX1556	E-mail dated 11/2/2000 from David Lambeth to Jason Wolf, RE: "Re: Friday XRD Measurements" [12/12/2017 Deposition of Jason Wolf, Ex. 9]	LAMBETH-000147337	
PX1557	E-mail dated 11/3/2000 from David Lambeth to Jason Wolf, RE: "Twinning" [12/12/2017 Deposition of Jason Wolf, Ex. 10]	LAMBETH-000154507	
PX1558	E-mail dated 11/5/2000 from David Lambeth to Jason Wolf, RE: "more thoughts" [12/12/2017 Deposition of Jason Wolf, Ex. 11]	LAMBETH-000154508	
PX1559	E-mail dated 11/28/2000 from David Lambeth to Jason Wolf, RE: "Pole Figure" [12/12/2017 Deposition of Jason Wolf, Ex. 12]	LAMBETH-000147342	LAMBETH-000147345
PX1560	Document entitled "X'Pert Texture" by Phillips Analytical, dated 11/27/2000 [12/12/2017 Deposition of Jason Wolf, Ex. 13]	WOLF-0004000	
PX1561	E-mail dated 11/28/2000 from David Lambeth to Jason Wolf, RE: "data Nov 28 2000" [12/12/2017 Deposition of Jason Wolf, Ex. 14]	LAMBETH-000154511	LAMBETH-000154512
PX1562	E-mail dated 11/29/2000 from David Lambeth to Jason Wolf, RE: "Omega (Theta offset)" [12/12/2017 Deposition of Jason Wolf, Ex. 15]	LAMBETH-000154513	
PX1563	E-mail dated 5/3/2001 from David Lambeth to Jason Wolf, RE: "Pole Figure measurement" [12/12/2017 Deposition of Jason Wolf, Ex. 16]	LAMBETH-000154516	
PX1564	E-mail dated 5/8/2001 from David Lambeth to Jason Wolf, RE: "Measurements TBD" with attachment [12/12/2017 Deposition of Jason Wolf, Ex. 17]	LAMBETH-000154517	
PX1565	E-mail dated 12/3/2000 from David Lambeth to Jason Wolf, RE: "Re: Pole figures for #5" [12/12/2017 Deposition of Jason Wolf, Ex. 18]	WOLF-0000006	WOLF-0000007
PX1566	E-mail dated 5/18/2001 from Jason Wolf to David Lambeth, RE: "One Pole Figure done" [12/12/2017 Deposition of Jason Wolf, Ex. 19]	LAMBETH-000147553	LAMBETH-000147554
PX1567	E-mail dated 5/18/2001 from David Lambeth to Jason Wolf, RE: "Re: One Pole Figure done" with attachment [12/12/2017 Deposition of Jason Wolf, Ex. 20]	LAMBETH-000147555	LAMBETH-000147557
PX1568	E-mail dated 5/18/2001 from Jason Wolf to David Lambeth RE: "Re: One Pole Figure done" [12/12/2017 Deposition of Jason Wolf, Ex. 21]	LAMBETH-000147558	
PX1569	E-mail dated 5/18/2001 from David Lambeth to Jason Wolf, RE: "Fwd: Re: One Pole Figure done" with attachment [12/12/2017 Deposition of Jason Wolf, Ex. 22]	LAMBETH-000154523	
PX1570	E-mail dated 6/1/2001 from David Lambeth to Jason Wolf, RE: "LS0909-06 and -05 Cu!" [12/12/2017 Deposition of Jason Wolf, Ex. 23]	LAMBETH-000154526	
PX1571	E-mail dated 7/28/2001 from Jason Wolf to David Lambeth, RE: "Data" [12/12/2017 Deposition of Jason Wolf, Ex. 24]	LAMBETH-000147570	
PX1572	E-mail dated 8/25/2001 from Jason Wolf to David Lambeth, RE: "8 pole figures attached" with attachments [12/12/2017 Deposition of Jason Wolf, Ex. 25]	LAMBETH-000147571	LAMBETH-000147575
PX1573	Handwritten document entitled "order to run," dated 7/2001 [12/12/2017 Deposition of Jason Wolf, Ex. 26]	WOLF-0004023	
PX1574	E-mail dated 8/27/2001 from Jason Wolf to David Lambeth, RE: "2 more pole figures" with attachment [12/12/2017 Deposition of Jason Wolf, Ex. 27]	LAMBETH-000147576	LAMBETH-000147577
PX1575	Handwritten document entitled "LS1425-02C," dated 8/27/2001 [12/12/2017 Deposition of Jason Wolf, Ex. 28]	WOLF-0004021	WOLF-0004022
PX1576	E-mail dated 8/27/2001 from Jason Wolf to David Lambeth, RE: "JW not at CMU" with attachment [12/12/2017 Deposition of Jason Wolf, Ex. 29]	LAMBETH-000147578	
PX1577	E-mail dated 8/27/2001 from David Lambeth to Jason Wolf, RE: "Re: JW not at CMU" [12/12/2017 Deposition of Jason Wolf, Ex. 30]	LAMBETH-00047579	
PX1578	E-mail dated 8/28/2001 from Jason Wolf to David Lambeth, RE: "Fine Scans" with attachment [12/12/2017 Deposition of Jason Wolf, Ex. 31]	LAMBETH-000147580	LAMBETH-000147581
PX1579	E-mail dated 8/29/2001 from Jason Wolf to David Lambeth, RE: "How's it going?" [12/12/2017 Deposition of Jason Wolf, Ex. 32]	LAMBETH-000147582	
PX1580	E-mail dated 8/29/2001 from David Lambeth to Jason Wolf RE: "Re: How's it going?" [12/12/2017 Deposition of Jason Wolf, Ex. 33]	LAMBETH-000147583	

PX #	Description	BatesBegin	BatesEnd
PX1581	Email dated 12/20/2000 from Jason Wolf to David Lambeth, RE: "CMU Charges" with invoice dated 12/19/2000 [12/12/2017 Deposition of Jason Wolf, Ex. 34]	WOLF-0003966	WOLF-0003967
PX1582	Agreement entitled "Intellectual Property Policy Agreement Form" between Jason Wolf and CMU, dated 8/27/1985 [12/12/2017 Deposition of Jason Wolf, Ex. 35]	CMU1_003941	
PX1583	U.S. Patent No. 7,128,988 [12/12/2017 Deposition of Jason Wolf, Ex. 36]		
PX1584	Email dated 4/14/2000 from David Lambeth to Jason Wolf, RE: "Use the Phi Scan" [12/12/2017 Deposition of Jason Wolf, Ex. 37]	LAMBETH-000154502	
PX1585	Email dated 11/28/2000 from Jason Wolf to David Lambeth, RE: "Pole Figure" with attachments [12/12/2017 Deposition of Jason Wolf, Ex. 38]	LAMBETH-000042638	LAMBETH-000042639
PX1586	Letter from David Lambeth to Jason Wolf [12/12/2017 Deposition of Jason Wolf, Ex. 39]	LAMBETH-000136934	LAMBETH-000136943
PX1587	Photograph of 6 papers [12/12/2017 Deposition of Jason Wolf, Ex. 40]	WD219028	
PX1588	Photograph of 8 papers [12/12/2017 Deposition of Jason Wolf, Ex. 41]	WD219021	
PX1589	Photograph of materials compared in size with a dime [12/12/2017 Deposition of Jason Wolf, Ex. 42]	WD219006	
PX1590	Photograph of 3 papers and a rubber band [12/12/2017 Deposition of Jason Wolf, Ex. 43]	WD219012	
PX1591	Photograph of arranged materials compared in size with a dime [12/12/2017 Deposition of Jason Wolf, Ex. 44]	WD218985	
PX1592	Document entitled "Explanation of Sample Preparation of Seagate SP2X Drive" [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 4]		
PX1593	Document entitled "Explanation of Sample Preparation of Seagate Hybrid X Drive" [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 5]		
PX1594	Photographs entitled "Bright field and annular dark field STEM" [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 6]	SEA03350376	
PX1595	Photographs entitled "Bright field and annular dark field STEM" [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 7]	SEA03350377	
PX1596	Document entitled "BCC Standard Diffraction Patterns" [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 8]		
PX1597	Document entitled "FFT Diffraction Patterns in Dr. Clark's Appendix C" [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 9]		
PX1598	Document entitled "SBR8DK - Figure 110" [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 10]		
PX1599	Document entitled "Simulated bcc Diffraction Rings" [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 11]		
PX1600	Document entitled "S0GPPC - Figure 47" [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 12]		
PX1601	Book Excerpt entitled "6. Electron Diffraction and Crystallography" by Fultz and Howe [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 13]		
PX1602	Textbook excerpts from "Interpretation of Electron diffraction patterns" by K.W. Andrews, D.J. Dyson, and S.R. Keown [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 14]		
PX1603	Textbook excerpts from "Transmission Electron Microscopy, Part 2: Diffraction" By David Williams and C. Barry Carter, dated 1996 [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 15]		
PX1604	Book Excerpt entitled "6. Electron Diffraction and Crystallography" by Fultz and Howe [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 16]		
PX1605	Book excerpts from "Transmission Electron Microscopy and Diffraction of Materials, Fourth Edition" by Brent Fultz and James Howe, dated 2001 [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 17]		
PX1606	Document entitled "In situ visualization of Metallurgical reactions in nanoscale Cu/SN diffusion couples" by Eric Stach, Qiyue Yin, Fan Gao, Zhiyong Gu, and Guangwen Zhou, dated 11/14/2014 [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 18]		
PX1607	Document entitled "Control and characterization of individual grain boundaries in Graphene grown by chemical vapour deposition" by Qingkai Yu, Luis Jaregui, Wei Wu, Robert Colby, Jifa Tian, Zhihua Su, Helin Cao, Zhihong Liu, Deepak Panday, Donggawang Wei, Ting Fung Chung, Peng Peng, Nathan Guisinger, Eric Stach, Jiming Bao, Shin-Shem Pei, and Yong Chen, from Nature Materials, dated 5/8/2011 [8/24/2018 Deposition of Eric Stach, Ph.D, Ex. 19]		
PX1608	Crystal Structure, Stress and Magnetic Properties of Electrodeposited 2.4T CoFe Films. Thickness and Substrate Dependence, Bates number SEA01944075 through 095 [8/30/2018 Deposition of Fullerton, Eric, Ex. 4]		
PX1609	Excerpts of "Introduction to Magnetic Materials, Second Edition," B.D. Cullity, C.D. Graham [8/30/2018 Deposition of Fullerton, Eric, Ex. 10]		
PX1610	BCC diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 11]		

PX #	Description	BatesBegin	BatesEnd
PX1611	BCC diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 12]		
PX1612	Identification and Determination of Crystal Structures and Orientations by Electron Diffraction, KK Fung [8/30/2018 Deposition of Fullerton, Eric, Ex. 13]		
PX1613	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 14]		
PX1614	Excerpts from textbook, "Transmission Electron Microscopy and Diffractometry of Materials," Brent Fultz, James Howe [8/30/2018 Deposition of Fullerton, Eric, Ex. 15]		
PX1615	Website printout from UC San Diego, Center for Memory and Recording Research [8/30/2018 Deposition of Fullerton, Eric, Ex. 16]		
PX1616	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 18A]		
PX1617	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 18B]		
PX1618	18.08.14 CCD Acquire 4T FFT [8/30/2018 Deposition of Fullerton, Eric, Ex. 18C]		
PX1619	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 19A]		
PX1620	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 19B]		
PX1621	Frameright5T [8/30/2018 Deposition of Fullerton, Eric, Ex. 19C]		
PX1622	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 20A]		
PX1623	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 20B]		
PX1624	18.10.05 CCD Acquire 1T FFT [8/30/2018 Deposition of Fullerton, Eric, Ex. 20C]		
PX1625	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 21A]		
PX1626	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 21B]		
PX1627	18.21.37 CCD Acquire 1T FFT [8/30/2018 Deposition of Fullerton, Eric, Ex. 21C]		
PX1628	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 22A]		
PX1629	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 22B]		
PX1630	18.21.37 CCD Acquire 2T FFT [8/30/2018 Deposition of Fullerton, Eric, Ex. 22C]		
PX1631	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 23A]		
PX1632	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 23B]		
PX1633	18.21.37 CCD Acquire 3T FFT [8/30/2018 Deposition of Fullerton, Eric, Ex. 23C]		
PX1634	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 24A]		
PX1635	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 24B]		
PX1636	18.21.37 CCD Acquire 1T FFT [8/30/2018 Deposition of Fullerton, Eric, Ex. 24C]		
PX1637	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 25A]		
PX1638	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 25B]		
PX1639	Frameright7T [8/30/2018 Deposition of Fullerton, Eric, Ex. 25C]		
PX1640	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 26A]		
PX1641	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 26B]		
PX1642	Frameright21T [8/30/2018 Deposition of Fullerton, Eric, Ex. 26C]		
PX1643	Frameright24T [8/30/2018 Deposition of Fullerton, Eric, Ex. 27A]		
PX1644	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 27B]		
PX1645	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 27C]		

PX #	Description	BatesBegin	BatesEnd
PX1646	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 28A]		
PX1647	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 28B]		
PX1648	Frameright25T [8/30/2018 Deposition of Fullerton, Eric, Ex. 28C]		
PX1649	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 29A]		
PX1650	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 29B]		
PX1651	Frameright31T [8/30/2018 Deposition of Fullerton, Eric, Ex. 29C]		
PX1652	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 30A]		
PX1653	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 30B]		
PX1654	Frameright33T [8/30/2018 Deposition of Fullerton, Eric, Ex. 30C]		
PX1655	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 31A]		
PX1656	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 31B]		
PX1657	Frameright35T [8/30/2018 Deposition of Fullerton, Eric, Ex. 31C]		
PX1658	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 32A]		
PX1659	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 32B]		
PX1660	Frameright41T [8/30/2018 Deposition of Fullerton, Eric, Ex. 32C]		
PX1661	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 33A]		
PX1662	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 33B]		
PX1663	Frameright51T [8/30/2018 Deposition of Fullerton, Eric, Ex. 33C]		
PX1664	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 34A]		
PX1665	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 34B]		
PX1666	Middle11T [8/30/2018 Deposition of Fullerton, Eric, Ex. 34C]		
PX1667	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 35A]		
PX1668	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 35B]		
PX1669	Middle12T [8/30/2018 Deposition of Fullerton, Eric, Ex. 35C]		
PX1670	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 36A]		
PX1671	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 36B]		
PX1672	MiddleNi41T [8/30/2018 Deposition of Fullerton, Eric, Ex. 36C]		
PX1673	Printout of diffraction pattern [8/30/2018 Deposition of Fullerton, Eric, Ex. 37A]		
PX1674	Transparency overlay [8/30/2018 Deposition of Fullerton, Eric, Ex. 37B]		
PX1675	MiddleNi43T [8/30/2018 Deposition of Fullerton, Eric, Ex. 37C]		
PX1676	Article, "Quantitative characterization of epitaxial superlattices by x-ray diffraction and high resolution electron microscopy" [8/30/2018 Deposition of Fullerton, Eric, Ex. 38]		
PX1677	Document entitled "How to Write for Technical Periodicals & Conferences" from the IEE Authorship Series [8/22/2018 Deposition of Caroline Ross, Ph.D, Ex. 3]		
PX1678	Document entitled "In-Plane Anisotropy in Arrays of Magnetic Ellipses" by Y. Hao, M. Walsh, C.A. Ross, Henry I. Smith, J.Q. Wang, and L. Malkinski, from IEEE Transactions on Magnetics, Vol. 36, No. 5, dated 9/2000 [8/22/2018 Deposition of Caroline Ross, Ph.D, Ex. 4]		

PX #	Description	BatesBegin	BatesEnd
PX1679	Document entitled "Correlation of Stress and Magnetic Anisotropy in CoCrPt/Cr Films Grown on Textured Substrates" by Douglas Wisselmann, Yuh-Jer Shine, and C.A. Ross from IEEE Transactions on Magnetics, Vol. 36, No. 5, dated 9/2000 [8/22/2018 Deposition of Caroline Ross, Ph.D, Ex. 5]		
PX1680	Document entitled "Plaintiff Lambeth Magnetic Structures, LLC's Amended Notice of Deposition Pursuant to Federal Rule of Civil Procedure 30(B)(6) to Defendants" dated 1/24/2018 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 1]		
PX1681	Document entitled "Matt Hadley 30(B)(6) Preparation" [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 2]		
PX1682	Printout of Matt Hadley's LinkedIn Profile, dated 2/6/2018 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 3]		
PX1683	Seagate's Second Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's Second Set of Interrogatories to Seagate Defendants (No. 10)," dated 9/19/2017 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 4]	LAMBETH-000245401	LAMBETH-000245425
PX1684	Document entitled "Muskie Head Product Design, HEAD DESIGN POINTS FOR MUSKIE (500G/Disk)" by Seagate [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 5]	SEA00047671	SEA00047672
PX1685	Document entitled "Desaru Head Product Design, HEAD DESIGN POINTS FOR DESARU (750 GB)" by Seagate [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 6]	SEA00030610	SEA00030611
PX1686	Document entitled "Full List" [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 7]	SEA00050412	
PX1687	Documents entitled "Information" and "Miller Analysis" [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 8]	SEA03148859	
PX1688	Sequence File for [REDACTED] Recipe at WP1_VD [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 9]	SEA00028034	
PX1689	Sequence File for [REDACTED] Recipe at WP_VD [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 10]	SEA00028035	
PX1690	Chamber Recipe in Step 3 of Exhibits 9 and 10 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 11]	SEA00028031	
PX1691	Expanded Version of Exhibit 11 (Chamber Recipe in Step 3 of Exhibits 9 and 10) [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 12]	SEA0148849	
PX1692	Second Part of Expanded Version of Exhibit 11 (Chamber Recipe in Step 3 of Exhibits 9 and 10) [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 13]	SEA03148851	
PX1693	Chamber Recipe Highlighted as Step 2 in Exhibits 9 and 10 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 14]	SEA00028032	
PX1694	First Half of Exhibit 14 in Expanded Form [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 15]	SEA03148852	
PX1695	Second Half of Exhibit 14 in Expanded Form [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 16]	SEA03148853	
PX1696	Details Relating to an Anneal Recipe [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 17]	SEA00028026	
PX1697	Spreadsheet entitled "raw data; Seagate Sales - April 2010 to January 2017" [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 18]	SEA01043127	
PX1698	Wafer Route [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 19]	SEA03148727	
PX1699	Sequence File for the WP1_VD [REDACTED] Recipe [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 20]	SEA00028027	
PX1700	WP_VD Sequence File for [REDACTED] [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 21]	SEA00028028	
PX1701	Chamber Recipe in Exhibit Number 20, Step 3, Iron-Cobalt Deposition [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 22]	SEA00028025	
PX1702	Spreadsheet entitled "Seagate Technology WLS Shipments per Month from April 2010 through December 2017" [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 23]	SEA03336805	
PX1703	Document entitled "IPP Information and Procedure for Switching to a New IPP when an FeCo Target is Spent" by Anelva IPP Instructions [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 24]	SEA01018766	SEA01018768
PX1704	Document entitled "Manufacturing Process Number 81457421, Process Title: Anelva Write Pole Qualification [Revision B]" by Seagate, dated 2/3/1999 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 25]	SEA02023483	SEA02023502
PX1705	BH-looper SOP Data File [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 26]	SEA03148888	
PX1706	15.3.2 Mok_04, Measure Date: 06/26/2017 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 27]	SEA03176859	
PX1707	Document entitled "Manufacturing Process Number 81457335, Process Title: MESA Looper Process & Qual [Revision T]" by Seagate, dated 5/22/2017 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 28]	SEA03336404	SEA03336421
PX1708	Document entitled "Manufacturing Process Number 81455503, Process Title: MOKEM Measurements" by Seagate, dated 1/8/2016 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 29]	SEA03336444	SEA03336464

PX #	Description	BatesBegin	BatesEnd
PX1709	Presentation entitled "Writer Pole and Shield Materials Requirements" by Venkat Inturi, dated 12/19/2016 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 30]	SEA01966511	SEA01966514
PX1710	Document entitled "Influence of underlayers on the soft properties of high magnetization FeCo films," by H.S. Jung, W.D. Doyle, and S. Matsunuma, from the Journal of Applied Physics, Vol. 93, No. 10, dated 11/12/2002 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 31]	SEA01134938	SEA01134940
PX1711	Document entitled "Soft Anisotropic Fe65 Co35/Co Thin Films Prepared by Facing Targets Sputtering" by Yi Fu, Takuji Miyao, Tomohiko Yamakami, Zheng Yang, Mitsunori Matsumoto, Xiaoxi Lu, and Akimitsu Morisako, dated 10/2005 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 32]	SEA01134835	SEA01134837
PX1712	Presentation entitled "WP Materials for EAW (TTM Meeting)" by Venkat Inturi and Kevin Heim, dated 12/19/2016 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 33]	SEA0206479	SEA0206530
PX1713	Presentation entitled "Crystal Structure, Stress and Magnetic Properties of Electrodeposited 2.4T CoFe Films. Thickness and Substrate Dependence" by Ibro Tabakovic, Vlad Vas'ko, Venkat Inturi, Steve Reimer, and Mark Kief for Seagate [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 34]	SEA01944075	SEA01944096
PX1714	Presentation entitled "Head Magnetic Layers for Outside Seekers" by Venkat Inturi [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 35]	SEA02304935	SEA02304984
PX1715	Seagate's Third Supplemental Objections and Answers to Lambeth Magnetic Structures First Set of Interrogatories (No. 1)," LMS v. Seagate, dated 9/19/2017 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 36]	LAMBETH-000245426	LAMBETH-000245442
PX1716	Seagate's Second Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's First Set of Interrogatories (Nos. 2 & 7)," LMS v. Seagate, dated 8/2/2017 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 37]	LAMBETH-000245112	LAMBETH-000245132
PX1717	Seagate's Second Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's Second Set of Interrogatories to Seagate Defendants (No. 10)," LMS v. Seagate, dated 9/19/2017 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 38]	LAMBETH-000245401	LAMBETH-000245425
PX1718	Seagate's Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's Third Set of Interrogatories TO Seagate Defendants (Nos. 12-13)," LMS v. Seagate, dated 11/27/2017 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 39]	LAMBETH-000246078	LAMBETH-000246105
PX1719	Seagate's Corrected Objections and Answers to Lambeth Magnetic Structures, LLC's Second Set of Interrogatories to Seagate Defendants (Nos. 8-11)," LMS v. Seagate, dated 4/21/2017 [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 40]	LAMBETH-000231062	LAMBETH-000231086
PX1720	Document entitled "Uniaxial HMM via an In-Plane Texture and/or Correlated Roughness" by Michael Seigler, Kalman Pelhos, Timothy Klemmer, and Kevin Minor [2/9/2018 Deposition of Matthew Hadley, Ph.D., Ex. 41]	SEA01929561	SEA01929569
PX1721	Printout of Venkateswara Inturi's LinkedIn Profile, dated 2017 [10/5/2017 Deposition of Venkateswara Inturi, Ex. 1]		
PX1722	Handwritten notes [Redacted] [10/5/2017 Deposition of Venkateswara Inturi, Ex. 2]	SEA03136838	SEA03136947
PX1723	Document entitled "1998 Spring MRS Meeting, San Francisco, CA" [10/5/2017 Deposition of Venkateswara Inturi, Ex. 3]	SEA01913729	SEA01913734
PX1724	Memo dated 9/24/1999 from Venkat Inturi to Distribution, Seagate Technology; RE: "Trip Report DISKCON 99" [10/5/2017 Deposition of Venkateswara Inturi, Ex. 4]	SEA01918175	SEA01918180
PX1725	U.S. Patent No. 7,128,988 B2 [10/5/2017 Deposition of Venkateswara Inturi, Ex. 5]		
PX1726	Presentation entitled "Soft high moment materials" by Venkat Inturi and Mark Keif, dated 10/10/2002 [10/5/2017 Deposition of Venkateswara Inturi, Ex. 6]	SEA02072690	SEA02072698
PX1727	Document entitled "Practical FeCo Films for Perpendicular Writer Pole" by Venkateswara Inturi, Huaqing Yin, Mark Kief, Matthew Hadley, Christoph Mathieu, from IEEE Vol. 48, No. 5, dated 5/2012 [10/5/2017 Deposition of Venkateswara Inturi, Ex. 7]		
PX1728	Presentation entitled "Head Magnetic Layers for Outside Seekers" by Venkat Inturi [10/5/2017 Deposition of Venkateswara Inturi, Ex. 8]	SEA02045902	SEA02045918
PX1729	Presentation entitled "Head Magnetic Layers for Outside Seekers" by Venkat Inturi [10/5/2017 Deposition of Venkateswara Inturi, Ex. 9]	SEA02304935	SEA02304984
PX1730	Presentation entitled "Practical FeCo Films for Perpendicular Writer Pole" by Venkat Inturi, Huaqing Yin, Mark Kief, Matt Hadley, and Christoph Mathieu [10/5/2017 Deposition of Venkateswara Inturi, Ex. 10]	SEA02036789	SEA02036811
PX1731	Chamber Recipe in Exhibit Number 20, Step 3, Iron-Cobalt Deposition [10/5/2017 Deposition of Venkateswara Inturi, Ex. 11]	SEA00028025	SEA00028025
PX1732	Sequence File for the WP1_VD [REDACTED] Recipe [10/5/2017 Deposition of Venkateswara Inturi, Ex. 12]	SEA00028027	SEA00028027
PX1733	WP_VD Sequence File for [REDACTED] [10/5/2017 Deposition of Venkateswara Inturi, Ex. 13]	SEA00028028	SEA00028028
PX1734	Spreadsheet entitled "SEA03148857.xls", dated 9/23/2016 [10/5/2017 Deposition of Venkateswara Inturi, Ex. 14]	SEA03148857	

PX #	Description	BatesBegin	BatesEnd
PX1735	Document entitled "Seagate's Responses and Objections to Lambeth Magnetic Structures, LLC's Second Amended Notice of Deposition Pursuant to Federal Rule of Civil Procedure 30(B)(6)" dated 2/15/2018 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 1]		
PX1736	Spreadsheet Summarizing Topics to Investigate and Prepare for Testimony [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 2]		
PX1737	Handwritten Notes summarizing 3 phone calls [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 3]		
PX1738	Printout of Mike Kautzky's LinkedIn Profile, dated 2018 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 4]		
PX1739	Seagate's Second Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's Second Set of Interrogatories to Seagate Defendants (No. 10)," LMS v. Seagate, dated 9/19/2017 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 5]	LAMBETH-000245401	LAMBETH-000245425
PX1740	Presentation entitled "Head Magnetic Layers for Outside Seekers" by Venkat Inturi, dated 2010 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 6]	SEA02042430	SEA02042470
PX1741	Presentation entitled "Practical FeCo Films for Perpendicular Writer Pole" by Venkat Inturi, Huaqing Yin, Mark Kief, Matt Hadley, and Christoph Mathieu [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 7]	SEA00027744	SEA00027765
PX1742	Document entitled "Composition Gradients and Magnetic Properties of 5-100 nm Thin CoNiFe Films Obtained by Electrodeposition" by Jie Gong, Steve Riemer, Augusto Morrone, Venkatram Venkatsamy, Micheal Kautzky, and Ibro Tabakovic, from the Journal of the Electrochemical Society, Vol. 159, Issue 7; dated 7/17/2012 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 8]	SEA01756680	SEA01756688
PX1743	Presentation entitled "An Introduction to Perpendicular Writers," by Huaqing Yin and Jianhua Xue, dated 10/15/2012; revised 9/22/2013 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 9]	SEA03128955	SEA03129082
PX1744	Presentation entitled "EAW Elimination Related Projects - RHO Roadmap-2006" by Dehua Han and Mike Tang, dated 9/8/2006 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 10]	SEA01049938	SEA010499948
PX1745	Document entitled "100 GBPSI BTD Feasibility Final Report Final Program Report December 2001" by Seagate Research Center, Mark Kryder and James Williams, dated 12/2001 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 11]	SEA01043148	SEA01043274
PX1746	Presentation entitled "Magnetic Overcoat Materials and Process Development" by S. Sahoo, Michael Kautzky, Declan Macken, Arko Misra, and Bian Karr, dated 12/6/2011 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 12]	SEA01610595	SEA01610621
PX1747	Presentation entitled [REDACTED] Update - For Cannon & Boulder" by Dehua Han, Huqing Yin, and James Price, dated 10/22/2007 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 13]	SEA00521911	SEA00521951
PX1748	Presentation entitled "Venus WBR1.5 - Al2O3 Laminated Writer Pole Deposition, TDT Vacuum" dated 7/15/2005 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 14]	SEA02897954	SEA02898006
PX1749	Presentation entitled "Composition Gradient and Magnetic Properties of 5-500 nm Thick NiFe and CoFe Films Obtained by Electrodeposition" by Jie Gong, Steve Riemer, Venkatram Venkatsamy, Michael Kautzky, and Ibro Tabakovic; given at ECS meeting, dated 10/2012 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 15]	SEA02042387	SEA02042404
PX1750	Presentation entitled "Gradient Writer Pole + No-YOKE For Optimizing Writability and Erasure" by Dehua Han, Chris Rea, Jianhua Xue, and Mike Tang, dated 6/12/2005 [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 16]	SEA01047543	SEA01047562
PX1751	Presentation entitled "Crystal Structure, Stress and Magnetic Properties of Electrodeposited 2.4T CoFe Films. Thickness and Substrate Dependence" by Ibro Tabakovic, Vlad Vas'ko, Venkat Inturi, Steve Reimer, and Mark Kief [2/21/2018 Deposition of Michael Kautzky, Ph.D., Ex. 17]	SEA01944075	SEA01944096
PX1752	Preparation Document for Robert Pechman 30(B)(6) [2/8/2018 Deposition of Robert Pechman, Ex. 1]		
PX1753	Printout of Robert Pechman's LinkedIn Profile, dated 2018 [2/8/2018 Deposition of Robert Pechman, Ex. 2]		
PX1754	Letter dated 1/8/2015 from Toshiba (Mitsunobu Enomoto) to Tomen Electronics Corporation (Attn: Takahiro Hidaka), RE: "Indemnification Request for Patent Lawsuit Brought by Lambeth Magnetic Structures LLC" [2/8/2018 Deposition of Robert Pechman, Ex. 3]	SEA03336364	SEA03336365
PX1755	Letter from Seagate (Donald Beardsley) to Tomen (Takahiro Hidaka), RE: "Lambeth Allegations Against Toshiba" [2/8/2018 Deposition of Robert Pechman, Ex. 4]	SEA03336369	
PX1756	Email dated 1/9/2015 from Tomen to Seagate, RE: [subject line written in japanese] [2/8/2018 Deposition of Robert Pechman, Ex. 5]	SEA03336366	SEA03336368
PX1757	Seagate'S Objections and Answers to Lambeth Magnetic Structures, LLC'S Fourth Set of Interrogatories to Seagate Defendants (Nos. 14-15)," LMS v. Seagate, dated 12/11/2017 [2/8/2018 Deposition of Robert Pechman, Ex. 6]	LAMBETH-000246222	LAMBETH-000246237
PX1758	Agreement entitled "Patent License Agreement" between Censtor Corp. and Seagate, dated 3/7/2002 [2/8/2018 Deposition of Robert Pechman, Ex. 7]	SEA00183901	SEA00183912
PX1759	Document entitled "Recordation Form Cover Sheet, Patents Only" of Censtor Corporation, dated 7/11/2013 [2/8/2018 Deposition of Robert Pechman, Ex. 8]	SEA03336123	SEA03336133

PX #	Description	BatesBegin	BatesEnd
PX1760	Agreement entitled "Licensing Agreement" between Forschutigszentrum Jillich GiubH and Seagate, dated 7/17/1997 [2/8/2018 Deposition of Robert Pechman, Ex. 9]	SEA00183921	SEA00183927
PX1761	Seagate's Second Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's Second Set of Interrogatories to Seagate Defendants (Nos. 8 and 9) dated February 6, 2018 [2/8/2018 Deposition of Robert Pechman, Ex. 10]	LAMBETH-000246731	LAMBETH-000246766
PX1762	Agreement entitled "Carnegie Mellon University Data Storage Systems Center Associates Agreement" between CMU and Seagate, dated 10/1/1997 [2/8/2018 Deposition of Robert Pechman, Ex. 11]	SEA02238164	SEA02238170
PX1763	Agreement entitled "Carnegie Mellon University Data Storage Systems Center Associates Agreement," dated 10/1/2000 [2/8/2018 Deposition of Robert Pechman, Ex. 12]	SEA02238171	SEA02238177
PX1764	Agreement entitled "Asset Purchase Agreement" between Samsung Electronics Co., Ltd, Seagate Technology International, and Seagate Technology PLC, dated 4/19/2011 [2/8/2018 Deposition of Robert Pechman, Ex. 13]	SEA02238209	SEA02238281
PX1765	Agreement entitled "Intellectual Property Agreement" between Samsung Electronics Co., Ltd. and Seagate Technology International, dated 4/19/2011 [2/8/2018 Deposition of Robert Pechman, Ex. 14]	SEA02238282	SEA02238296
PX1766	Seagate's Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's First Set of Interrogatories to Seagate Defendants (No. 3)" dated 2/6/2018 [2/8/2018 Deposition of Robert Pechman, Ex. 15]		
PX1767	Document entitled "Seagate's Amended Invalidity and Non-Infringement Contentions" dated 1/4/2018 [2/8/2018 Deposition of Robert Pechman, Ex. 16]		
PX1768	Website printout entitled "Invalidating a patent directed to physical laws" from PhysicsForums, dated 10/16/2016 [2/8/2018 Deposition of Robert Pechman, Ex. 17]		
PX1769	Document entitled "Lambeth Magnetic Structures, LLC's First Set of Requests For Admission (Nos. 1-8)" dated 7/27/2017 [2/8/2018 Deposition of Robert Pechman, Ex. 18]		
PX1770	Document entitled "Seagate's Second Amended Redaction Log (Productions through 1/31/18)" dated 1/31/2018 [2/8/2018 Deposition of Robert Pechman, Ex. 19]		
PX1771	Document entitled "PLAINTIFF LAMBETH MAGNETIC STRUCTURES, LLC'S SECOND AMENDED NOTICE OF DEPOSITION PURSUANT TO FEDERAL RULE OF CIVIL PROCEDURE 30(B)(6) TO DEFENDANTS" dated 2/9/2018 [2/15/2018 Deposition of Patrick Shay, Ex. 1]		
PX1772	Document entitled "PLAINTIFF LAMBETH MAGNETIC STRUCTURES, LLC'S NOTICE OF DEPOSITION OF PATRICK SHAY" dated 2/14/2018 [2/15/2018 Deposition of Patrick Shay, Ex. 2]		
PX1773	Printout of Patrick Shay's LinkedIn profile, dated 2018 [2/15/2018 Deposition of Patrick Shay, Ex. 3]		
PX1774	Document entitled "Seagate Technology Transfer Pricing Analysis and Report For the Fiscal Year Ended July 1, 2011" dated 12/14/2011 [2/15/2018 Deposition of Patrick Shay, Ex. 4]	SEA01387872	SEA01387961
PX1775	Document entitled "Seagate Technology Transfer pricing analysis and report For the fiscal year ended June 29, 2012" dated 12/17/2012 [2/15/2018 Deposition of Patrick Shay, Ex. 5]	SEA01387962	SEA01388055
PX1776	Seagate's Second Supplemental Objections and Answers to Lambeth Magnetic Structures, LLC's First Set of Interrogatories (Nos. 2 & 7)." LMS v. Seagate, dated 8/2/2017 [2/15/2018 Deposition of Patrick Shay, Ex. 6]	LAMBETH-000245112	LAMBETH-000245132
PX1777	Agreement entitled "CONTRACT MANUFACTURING AGREEMENT" between Seagate Technology International and Seagate Technology (Ireland), dated 7/1/2006 [2/15/2018 Deposition of Patrick Shay, Ex. 7]	SEA01388297	SEA01388305
PX1778	Agreement entitled "CONTRACT MANUFACTURING AGREEMENT" by and between Seagate Technology International and Seagate Technology LLC, dated 6/30/2007 [2/15/2018 Deposition of Patrick Shay, Ex. 8]	SEA01388341	SEA01388350
PX1779	Agreement entitled "CONTRACT MANUFACTURING AGREEMENT" by and between Seagate Singapore International Headquarters Pte. Ltd. and Seagate Technology LLC, dated 7/4/2015 [2/15/2018 Deposition of Patrick Shay, Ex. 9]	SEA01388351	SEA01388362
PX1780	Agreement entitled "CONTRACT MANUFACTURING AGREEMENT" by and between Penang Seagate Industries (M) Sdn Bhd and Seagate Technology LLC, dated 7/4/2015 [2/15/2018 Deposition of Patrick Shay, Ex. 10]	SEA01388363	SEA01388373
PX1781	Agreement entitled "CONTRACT MANUFACTURING AGREEMENT" by and between Seagate Technology (Thailand) Limited and Seagate Technology LLC, dated 7/4/2015 [2/15/2018 Deposition of Patrick Shay, Ex. 11]	SEA01388374	SEA01388385
PX1782	Agreement entitled "CONTRACT MANUFACTURING AGREEMENT" by and between Seagate Singapore International Headquarters Pte. Ltd. and Seagate Technology (Ireland), Springtown Branch, dated 7/4/2015 [2/15/2018 Deposition of Patrick Shay, Ex. 12]	SEA01388306	SEA01388317
PX1783	Agreement entitled "CONTRACT MANUFACTURING AGREEMENT" by and between Penang Seagate Industries (M) Sdn Bhd and Seagate Technology (Ireland), Springtown Branch, dated 7/4/2015 [2/15/2018 Deposition of Patrick Shay, Ex. 13]	SEA01388318	SEA01388328

PX #	Description	BatesBegin	BatesEnd
PX1784	Agreement entitled "CONTRACT MANUFACTURING AGREEMENT" by and between Seagate Technology (Thailand) Limited and Seagate Technology (Ireland), Springtown Branch, dated 7/4/2015 [2/15/2018 Deposition of Patrick Shay, Ex. 14]	SEA01388329	SEA01388340
PX1785	Document entitled "ECONOMIC ANALYSIS OF INTERCOMPANY PRICING OF THE FOLLOWING U.S. RELATED TRANSACTIONS OF SEAGATE TECHNOLOGY (U.S.) HOLDINGS, INC. FOR THE FISCAL YEAR ENDED JUNE 30, 2006 PURCHASES OF DISC DRIVES FOR U.S. DISTRIBUTION, SALES OF U.S. CONTRACT MANUFACTURED MEDIA, AND SALES OF U.S. CONTRACT MANUFACTURED WAFERS February 28, 2007" by Price Waterhouse Coopers, dated 2/28/2007 [2/15/2018 Deposition of Patrick Shay, Ex. 15]	SEA03337287	SEA03337384
PX1786	Document entitled "Seagate Technology LLC Transfer pricing benchmarking analysis Issued: December 18,2015" dated 12/18/2015 [2/15/2018 Deposition of Patrick Shay, Ex. 16]	SEA03336691	SEA03336767
PX1787	Document entitled "Seagate Technology PLC Fiscal June 2016 Summary of Comparable Sets Prepared by PriceWaterhouseCoopers" dated 8/9/2016 [2/15/2018 Deposition of Patrick Shay, Ex. 17]	SEA03336804	
PX1788	Document entitled "Seagate Transfer Pricing Average Wafer Level Slider ('WLS') Intercompany Transfer Pricing April 2010 through June 2016" [2/15/2018 Deposition of Patrick Shay, Ex. 18]		
PX1789	Document entitled Seagate Technology (Ireland) Transfer Pricing Report" dated 6/30/2007 [2/15/2018 Deposition of Patrick Shay, Ex. 19]	SEA03336971	SEA03337050
PX1790	Document entitled "YTD_Jun03; SEAGATE HEADS INCOME STATEMENT" [2/15/2018 Deposition of Patrick Shay, Ex. 20]	SEA03336881	
PX1791	Document entitled "YTD_Jun06; SEAGATE HEADS INCOME STATEMENT," [2/15/2018 Deposition of Patrick Shay, Ex. 21]	SEA03336884	
PX1792	Document entitled "YTD_Jun16; SEAGATE HEADS INCOME STATEMENT FYE" dated 7/1/2016 [2/15/2018 Deposition of Patrick Shay, Ex. 22]	SEA01387726	
PX1793	Document entitled "YTD_Mar10; SEAGATE TECHNOLOGY (IRELAND) INCOME STATEMENT" [2/15/2018 Deposition of Patrick Shay, Ex. 23]	SEA01387727	
PX1794	Document listing all the topics for Jesse Yang's testimony [2/16/2018 Deposition of Jesse Yang, Ex. 1]		
PX1795	Printout of Jesse Yang's LinkedIn profile, dated 2/18/2018 [2/16/2018 Deposition of Jesse Yang, Ex. 2]		
PX1796	Document titled "Seagate Technology PLC FORM 10-K (Annual Report) Filed 08/04/17 for the Period Ending 06/30/17" [2/16/2018 Deposition of Jesse Yang, Ex. 3]		
PX1797	Spreadsheet entitled "Seagate HDD Sales" in native format [2/16/2018 Deposition of Jesse Yang, Ex. 4]	SEA03336314	
PX1798	Spreadsheet entitled "Total HGA Demand" in native format [2/16/2018 Deposition of Jesse Yang, Ex. 5]	SEA03336536	
PX1799	Agreement entitled "AMENDED AND RESTATED PRODUCT SUPPLY AND SERVICES AGREEMENT" between Seagate Technology LLC, Seagate Singapore International Headquarters Pts. Ltd., TDK Corporation, and SAE Magnetics (H.K.) Ltd., dated 11/16/2011 [2/16/2018 Deposition of Jesse Yang, Ex. 6]	SEA01912299	SEA01912335
PX1800	Agreement entitled "PRODUCT SUPPLY AGREEMENT" between Seagate Technology LLC, Seagate Singapore International Headquarters Pts. Ltd., TDK Corporation, and SAE Magnetics (H.K.) Ltd., dated 10/13/2014 [2/16/2018 Deposition of Jesse Yang, Ex. 7]	SEA00091610	SEA00091647
PX1801	Agreement entitled "PRODUCT SUPPLY AGREEMENT" between Seagate Technology LLC, Seagate Singapore International Headquarters Pts. Ltd., TDK Corporation, and SAE Magnetics (H.K.) Ltd., dated 1/17/2017 [2/16/2018 Deposition of Jesse Yang, Ex. 8]	SEA01042999	SEA01043024
PX1802	Document entitled "SEAGATE HEADS INCOME STATEMENT" dated 7/1/2016 [2/16/2018 Deposition of Jesse Yang, Ex. 9]	SEA01387726	
PX1803	Document entitled "SEAGATE TECHNOLOGY (IRELAND) INCOME STATEMENT," dated 6/2015 [2/16/2018 Deposition of Jesse Yang, Ex. 10]	SEA01387732	
PX1804	Document entitled "Seagate Technology (Ireland) Directors' report and financial statements for the year ended 30 June 2015" [2/16/2018 Deposition of Jesse Yang, Ex. 11]	SEA01387844	SEA01387871
PX1805	Document entitled "RHO OTHER SUPPORT ALLOCATION" dated 2/7/2017 [2/16/2018 Deposition of Jesse Yang, Ex. 12]	SEA01043025	SEA01043028
PX1806	Document entitled "RHO OTHER SUPPORT ALLOCATION, col.only good at qrt end" dated 2/7/2018 [2/16/2018 Deposition of Jesse Yang, Ex. 13]	SEA01043104	SEA01043106
PX1807	Document entitled "July 2005 Revenue & Cost of Sales Rec'n" dated 2/15/2018 [2/16/2018 Deposition of Jesse Yang, Ex. 14]	SEA03336887	
PX1808	Presentation entitled "Historical and Projected Trends" by Seagate, dated 12/2006 [2/16/2018 Deposition of Jesse Yang, Ex. 15]	SEA03337409	SEA03337418
PX1809	Document entitled "Competitive Intelligence Report," by Seagate, dated 2/28/2005 [2/16/2018 Deposition of Jesse Yang, Ex. 16]	SEA02293974	

PX #	Description	BatesBegin	BatesEnd
PX1810	Spreadsheet entitled "Comp Analysis" in native format, dated 2013 [2/16/2018 Deposition of Jesse Yang, Ex. 17]	SEA03057690	
PX1811	Presentation entitled "Corporate Overview August 2006" by Seagate [2/16/2018 Deposition of Jesse Yang, Ex. 18]	SEA01007381	SEA01007417
PX1812	Document entitled "FOCUS ON: Technologies for Beyond 1 Tb/in ² ," by Mark Geenan, John Kim, and John Chen, dated 8/27/2008 [2/16/2018 Deposition of Jesse Yang, Ex. 19]	SEA02007789	SEA02007805
PX1813	SEC Form 4: Mark H. Kryder - dated 10/30/2003, available at https://www.sec.gov/Archives/edgar/data/1137789/000118143103028023/xslF345X02/rrd21214.xml		
PX1814	SEC Form 4: Mark H. Kryder - dated 2/03/2004, available at https://www.sec.gov/Archives/edgar/data/1137789/000118143104006061/xslF345X02/rrd31347.xml		
PX1815	SEC Form 4: Mark H. Kryder - dated 2/03/2006, available at https://www.sec.gov/Archives/edgar/data/1137789/000118143106008427/xslF345X02/rrd106178.xml		
PX1816	SEC Form 4_A: Mark H. Kryder - dated 2/10/2006, available at https://www.sec.gov/Archives/edgar/data/1137789/000118143106010479/xslF345X02/rrd107498.xml		
PX1817	SEC Form 4_A: Mark H. Kryder - dated 11/30/2006, available at https://www.sec.gov/Archives/edgar/data/1137789/000118143106066723/xslF345X02/rrd137905.xml		
PX1818	SEC Form 4: Mark H. Kryder - dated 5/03/2007, available at https://www.sec.gov/Archives/edgar/data/1137789/000118143107029452/xslF345X02/rrd157008.xml		
PX1819	SEC Form 8-K: Seagate Technology - dated 9/19/2008, available at https://www.sec.gov/Archives/edgar/data/1137789/000119312508198664/d8k.htm		
PX1820	Pittsburgh Business Times, "Seagate closing Pittsburgh facility after six years," Sept. 18, 2008, available at https://www.bizjournals.com/pittsburgh/stories/2008/09/15/daily35.html		
PX1821	Pittsburgh Post-Gazette, "Seagate to close facility in Strip," Sept. 19, 2008, available at https://www.post-gazette.com/business/businessnews/2008/09/19/Seagate-to-close-facility-in-Strip/stories/200809190206		
PX1822	CNN Money, "Hard-drive giant slashes jobs," May 13, 2009, available at https://money.cnn.com/2009/05/13/technology/seagate/		
PX1823	Barron's, "Seagate To Close Pittsburgh Research Unit, Take Charge," Sept. 19, 2008, available at https://www.barrons.com/articles/BL-TB-8801		
PX1824	Document entitled "High saturation magnetization films of FeCoCr," by V. A. Vas'ko, V. R. Inturi, S. C. Riemer, A. Morrone, D. Schouweiler, R. D. Knox, and M. T. Kief, from Journal of Applied Physics 91, 6818 (2002), available at http://dx.doi.org/10.1063/1.1452657		
PX1825	Jie Gong, Steve Riemer, Augusto Morrone, Venkatram Venkatasamy, Michael Kautzky, and Ibro Tabakovic, entitled "Composition Gradients and Magnetic Properties of 5-100 nm Thin CoNiFe Films Obtained by Electrodeposition", Journal of The Electrochemical Society, Vol. 159 (2012)		
PX1826	M. J. Hadley and R. J. Pollard, entitled, "Magnetic and structural properties of Co films deposited onto obliquely sputtered Pt underlayers", Journal of Applied Physics 92, 7389 (2002), available at http://dx.doi.org/10.1063/1.1522493		
PX1827	Lei Lu, Jared Young, Mingzhong Wu, Christoph Mathieu, Matthew Hadley, Pavol Krivosik, and Nan Mo, entitled "Tuning of magnetization relaxation in ferromagnetic thin films through seed layers", Applied Physics Letters 100, 022403 (2012); doi: 10.1063/1.3675614, available at http://dx.doi.org/10.1063/1.3675614		
PX1828	Christoph Mathieu, Hau-Jian Liu, Kristen S. Buchanan, and Venkateswara R. Inturi, entitled, "Volume exchange in soft FeCo films of high magnetization", Journal of Applied Physics, Vol. 111, (2012), available at http://dx.doi.org/10.1063/1.3670975		
PX1829	Corneliu Nistor, Ke Sun, Zihui Wang, Mingzhong Wu, Christoph Mathieu, and Matthew Hadley, entitled "Observation of microwave-assisted magnetization reversal in Fe 65 Co 35 thin films through ferromagnetic resonance measurements", : Applied Physics Letters Vol. 95, (2009), available at http://dx.doi.org/10.1063/1.3175721		
PX1830	Ibro Tabakovic, Venkateswara Inturi, and Steve Riemer, entitled "Composition, Structure, Stress, and Coercivity of Electrodeposited Soft Magnetic CoNiFe Films Thickness and Substrate Dependence", Journal of The Electrochemical Society, Vol. 149 (2002)		
PX1831	Ibro Tabakovic, Venkateswara Inturi, Jeremy Thurn, Mark Kief, entitled "Properties of Ni1-xFex (0.1 < x < 0.9) and Invar (x = 0.64) alloys obtained by electrodeposition", Electrochimica Acta 55 (2010) available at : www.elsevier.com/locate/electacta		
PX1832	Ibro Tabakovic, Venkateswara Inturi, Jeremy Thurn, Mark Kief, entitled "Erratum to "Properties of Ni1-xFex (0.1 < x < 0.9) and Invar (x = 0.64) alloys obtained by electrodeposition" Electrochim. Acta Vol. 55 (2010), Electrochimica Acta Vol. 56 (2011), available at www.elsevier.com/locate/electacta		
PX1833	Ibro Tabakovic, Jie Gong, Steve Riemer, and Michael Kautzky, entitled "Influence of Surface Roughness and Current Efficiency on Composition Gradients of Thin NiFe Films Obtained by Electrodeposition", Journal of The Electrochemical Society, Vol. 162 (2015)		
PX1834	Robert Lamberton, Michael Seigler, Kalman Pelhos, Hua Zhou, Martin McCurry, Marcus Ormston, Gary Yi, Gregor McClean, Tom McLaughlin, Paul Kolbo, Olle Heininen, Victor Sapozhnikov, Sining Mao, entitled "Current-In-Plane GMR Trilayer Head Design for Hard Disc Drives: Characterisation and Extendibility", Robert Lamberton, TMRC Conference.	SEA02546879	SEA02546885
PX1835	Seagate Progress Report written by Mike A. Seigler, entitled "Progress report for the Vacuum Processing Group" dated 11/19/02	SEA02774605	SEA02726205
PX1836	Report written by Mike Seigler, entitled "Current Perpendicular to Plane, Giant Magnetoresistance Project Report"	SEA02786868	SEA02786896

PX #	Description	BatesBegin	BatesEnd
PX1837	Internal Seagate White Paper written by Thomas Ambrose, Charlie Brucker, Ganping Ju, Duane Karns, Timothy Klemmer, Bin Lu, Kalman Pelhos, Mike Seigler, Ashwin Sunder, Rene van de Veerdonk, Dieter Weller, Xiaowei Wu and Hong Zhou, entitled "Tilted Media"	SEA02795075	SEA02795198
PX1838	Michael A. Seigler, William A. Challener, Edward Gage, Nils Gokemeijer, Ganping Ju, Bin Lu, Kalman Pelhos, Chubing Peng, Robert E. Rottmayer, Xiaomin Yang, Hua Zhou, and Tim Rausch, entitled "Integrated Heat Assisted Magnetic Recording Head: Design and Recording Demonstration", IEEE Transactions On Magnetics, No. 1, January 2008	SEA02891064	SEA02891075
PX1839	Michael A. Seigler, William A. Challener, Edward Gage, Nils Gokemeijer, Bin Lu, Kalman Pelhos, Chubing Peng, Robert E. Rottmayer, Xiaomin Yang, Hua Zhou, Xiaobin Zhu, and Tim Rausch, entitled "Heat Assisted Magnetic Recording with a Fully Integrated Recording Head", Optical Research of America, dated 2007	SEA02893492	SEA02893499
PX1840	Ruoxi Yang, Paul Jones, Timmothy Klemmer, Heidi Oldson, Tyler Perry, Huaqing Yin, Roger Hipwell, Jan Ulrich Thiele, Huan Tang and Mike Seigler, entitled "Far-field head-media optical interaction in heat-assisted magnetic recording" dated October 1, 2015	SEA03120366	SEA03120373
PX1841	Seagate Heads Income Statement YTD Jun10	SEA01387720	
PX1842	Seagate Heads Income Statement FYE 7/1/11	SEA01387721	
PX1843	Seagate Heads Income Statement FYE 6/29/12	SEA01387722	
PX1844	Seagate Heads Income Statement FYE 6/28/13	SEA01387723	
PX1845	Seagate Heads Income Statement FYE 6/27/14	SEA01387724	
PX1846	Seagate Heads Income Statement FYE FYE 7/3/15	SEA01387725	
PX1847	Seagate Technology (Ireland) Income Statement YTD Jun11	SEA01387728	
PX1848	Seagate Technology (Ireland) Income Statement YTD Jun12	SEA01387729	
PX1849	Seagate Technology (Ireland) Income Statement YTD Jun13	SEA01387730	
PX1850	Seagate Technology (Ireland) Income Statement YTD Jun14	SEA01387731	
PX1851	Seagate Technology Ireland Forecast P&L - FY16 STST Trading Account	SEA01387733	
PX1852	Seagate Technology (Ireland) Directors' report and financial statements for the year ended 30 June 2011	SEA01387734	
PX1853	Seagate Technology (Ireland) Directors' report and financial statements for the year ended 30 June 2012	SEA01387762	
PX1854	Seagate Technology (Ireland) Directors' report and financial statements for the year ended 30 June 2013	SEA01387789	
PX1855	Seagate Technology (Ireland) Directors' report and financial statements for the year ended 30 June 2014	SEA01387816	
PX1856	Pamphlet entitled "Enterprise Storage/Networking Weekly," by Wachovia, dated 11/5/2007	LAMBETH-000213433	LAMBETH-000213457
PX1857	Seagate Form 10-K For the fiscal year ended July 2, 2010	LAMBETH-000215004	LAMBETH-000215149
PX1858	Seagate Form 10-K For the fiscal year ended July 1, 2011	LAMBETH-000215150	LAMBETH-000215307
PX1859	Seagate Form 10-K For the fiscal year ended June 29, 2012	LAMBETH-000215308	LAMBETH-000215453
PX1860	Seagate Form 10-K For the fiscal year ended June 28, 2013	LAMBETH-000215454	LAMBETH-000215594
PX1861	Seagate Form 10-K For the fiscal year ended June 27, 2014	LAMBETH-000215595	LAMBETH-000215739
PX1862	Seagate Form 10-K For the fiscal year ended July 3, 2015	LAMBETH-000215740	LAMBETH-000215882
PX1863	Seagate Form 10-K For the fiscal year ended July 1, 2016	LAMBETH-000215883	LAMBETH-000216031
PX1864	Seagate Form 10-Q For the quarterly period ended January 1, 2010	LAMBETH-000217109	LAMBETH-000217165
PX1865	Seagate Form 10-Q For the quarterly period ended April 2, 2010	LAMBETH-000217166	LAMBETH-000217292
PX1866	Seagate Form 10-Q For the quarterly period ended October 1, 2010	LAMBETH-000217293	LAMBETH-000217355
PX1867	Seagate Form 10-Q For the quarterly period ended December 31, 2010	LAMBETH-000217356	LAMBETH-000217718
PX1868	Seagate Form 10-Q For the quarterly period ended April 1, 2011	LAMBETH-000217719	LAMBETH-000217788
PX1869	Seagate Form 10-Q For the quarterly period ended September 30, 2011	LAMBETH-000217789	LAMBETH-000217901
PX1870	Seagate Form 10-Q For the quarterly period ended December 30, 2011	LAMBETH-000217902	LAMBETH-000217949
PX1871	Seagate Form 10-Q For the quarterly period ended March 30, 2012	LAMBETH-000217950	LAMBETH-000218001
PX1872	Seagate Form 10-Q For the quarterly period ended September 28, 2012	LAMBETH-000218002	LAMBETH-000218066
PX1873	Seagate Form 10-Q For the quarterly period ended December 28, 2012	LAMBETH-000218067	LAMBETH-000218109
PX1874	Seagate Form 10-Q For the quarterly period ended March 29, 2013	LAMBETH-000218110	LAMBETH-000218193
PX1875	Seagate Form 10-Q For the quarterly period ended September 27, 2013	LAMBETH-000218194	LAMBETH-000218234
PX1876	Seagate Form 10-Q For the quarterly period ended December 27, 2013	LAMBETH-000218235	LAMBETH-000218300
PX1877	Seagate Form 10-Q For the quarterly period ended March 28, 2014	LAMBETH-000218301	LAMBETH-000218356
PX1878	Seagate Form 10-Q For the quarterly period ended October 3, 2014	LAMBETH-000218357	LAMBETH-000218398
PX1879	Seagate Form 10-Q For the quarterly period ended January 2, 2015	LAMBETH-000218399	LAMBETH-000218476
PX1880	Seagate Form 10-Q For the quarterly period ended April 3, 2015	LAMBETH-000218477	LAMBETH-000218520
PX1881	Seagate Form 10-Q For the quarterly period ended October 2, 2015	LAMBETH-000218521	LAMBETH-000218564
PX1882	Seagate Form 10-Q For the quarterly period ended January 1, 2016	LAMBETH-000218565	LAMBETH-000218613
PX1883	Seagate Form 10-Q For the quarterly period ended April 1, 2016	LAMBETH-000218614	LAMBETH-000218671
PX1884	Seagate Form 10-Q For the quarterly period ended September 30, 2016	LAMBETH-000218672	LAMBETH-000218713
PX1885	Seagate Form 10-Q For the quarterly period ended December 30, 2016	LAMBETH-000218714	LAMBETH-000218772
PX1886	Seagate Technology LLC Transfer pricing analysis and report For the fiscal year ended June 28, 2013	SEA01388056	SEA01388150
PX1887	Seagate Technology LLC Transfer pricing analysis and report For the fiscal year ended June 27, 2014	SEA01388151	SEA01388296
PX1888	Agreement entitled "CONTRACT MANUFACTURING AGREEMENT" between Penang Seagate Industries (M) Sdn Bhd and Seagate Technology LLC, dated 7/4/2015	SEA01388363	SEA01388373
PX1889	Spreadsheet entitled "RHO OTHER SUPPORT ALLOCATION," dated 2011	SEA01912340	SEA01912340
PX1890	Spreadsheet entitled "RHO OTHER SUPPORT ALLOCATION," dated 2012	SEA01912344	SEA01912344
PX1891	Spreadsheet entitled "RHO OTHER SUPPORT ALLOCATION," dated 2013	SEA01912348	SEA01912348
PX1892	Spreadsheet entitled "RHO OTHER SUPPORT ALLOCATION," dated 2014	SEA01912352	SEA01912352
PX1893	Spreadsheet entitled "RHO OTHER SUPPORT ALLOCATION," dated 2015	SEA01912356	SEA01912356

PX #	Description	BatesBegin	BatesEnd
PX1894	Spreadsheet entitled "RHO Total COS," dated 2011	SEA01912361	SEA01912361
PX1895	Spreadsheet entitled "RHO Total COS," dated 2012	SEA01912362	SEA01912362
PX1896	Spreadsheet entitled "RHO Total COS," dated 2013	SEA01912363	SEA01912363
PX1897	Spreadsheet entitled "RHO Total COS," dated 2014	SEA01912364	SEA01912364
PX1898	Spreadsheet entitled "RHO Total COS," dated 2015	SEA01912365	SEA01912365
PX1899	Spreadsheet entitled "RHO Total COS," dated 2016	SEA01912366	SEA01912366
PX1900	Agreement entitled "Trademark License Agreement" between Samsung and Seagate, dated 4/19/2011	SEA02238178	SEA02238208
PX1901	Agreement entitled "Amendment No. 1 to Trademark License Agreement" between Samsung and Seagate, dated 3/26/2012	SEA02238297	SEA02238300
PX1902	Table of contents for Seagate-Samsung Agreement, dated 2011	SEA02337801	SEA02337811
PX1903	Presentation entitled "Fifty Years of Disk Drives and The Exciting Road Ahead," by Mark Kryder, dated 9/2006	SEA02547439	SEA02547469
PX1904	Presentation entitled "NiFe 45/55 process development," by Mark Nachbor	SEA02730356	SEA02730389
PX1905	Spreadsheet entitled "SEAGATE Hard Drive Sales by Model number"	SEA03148861	SEA03148861
PX1906	Agreement entitled "Reciprocal Nondisclosure Agreement" between Seagate and Lambeth Systems, dated 10/14/1996	SEA03336134	SEA03336134
PX1907	Spreadsheet entitled "Seagate HDD Sales to Customers"	SEA03336315	SEA03336315
PX1908	Report entitled "Seagate Technology (Ireland) Transfer pricing analysis and report, by PriceWaterhouseCooper, dated 6/28/2013	SEA03336537	SEA03336690
PX1909	Spreadsheet entitled "Seagate WLS Ship Summary 2010 to 2017," by Barbara Lodes, dated 2/2/2018	SEA03336806	SEA03336806
PX1910	Report entitled "Report and Financial Statements," by Seagate Technology (Ireland), dated 6/30/2003	SEA03336808	SEA03336823
PX1911	Report entitled "Report and Financial Statements," by Seagate Technology (Ireland), dated 6/30/2004	SEA03336824	SEA03336842
PX1912	Report entitled "Report and Financial Statements," by Seagate Technology (Ireland), dated 6/30/2005	SEA03336843	SEA03336859
PX1913	Report entitled "Report and Financial Statements," by Seagate Technology (Ireland), dated 6/30/2006	SEA03336860	SEA03336880
PX1914	Seagate Heads Income Statement, dated 6/2004	SEA03336882	SEA03336882
PX1915	Seagate Heads Income Statement, dated 6/2005	SEA03336883	SEA03336883
PX1916	Spreadsheet entitled "July 2003 Revenue & Cost of Sales Rec'n," by Olivia OConnell, 2/13/2018	SEA03336885	SEA03336885
PX1917	Spreadsheet entitled "July 2004 Revenue & Cost of Sales Rec'n," by Olivia OConnell, 2/13/2018	SEA03336886	SEA03336886
PX1918	Report entitled "Transfer Pricing Report," by Seagate Technology (Ireland), dated 6/30/2004	SEA03336888	SEA03336970
PX1919	Seagate Technology Executive Summary, by PriceWaterhouseCoopers, dated 6/27/2003	SEA03337051	SEA03337106
PX1920	Seagate Technology Executive Summary, by PriceWaterhouseCoopers, dated 7/2/2004	SEA03337107	SEA03337161
PX1921	Seagate Technology Executive Summary, by PriceWaterhouseCoopers, dated 3/10/2006	SEA03337162	SEA03337286
PX1922	Seagate Presentation titled "Financial Review Q2'06 Actual "	SEA03337385	SEA03337390
PX1923	Seagate Presentation titled "Financial Expectations Q3'06 December Budget"	SEA03337391	SEA03337396
PX1924	Seagate Presentation titled "FY06 Plan Decemebr Budget "	SEA03337397	SEA03337408
PX1925	Seagate Presentation titled "Competitor Comparison "	SEA03337419	SEA03337426
PX1926	Seagate Presentation titled "Financial Review Q1'06 Actual "	SEA03337427	SEA03337432
PX1927	Seagate Presentation titled "Financial Expectations Q2'06 September Forecast"	SEA03337433	SEA03337438
PX1928	Seagate Presentation titled "FY06 Plan September Forecast "	SEA03337439	SEA03337450
PX1929	Seagate Presentation titled "Historical and Projected Trends"	SEA03337451	SEA03337460
PX1930	Seagate Presentation titled "Competitor Comparison "	SEA03337461	SEA03337468
PX1931	Seagate Presentation titled "Financial Review Q4'05 Actual "	SEA03337469	SEA03337474
PX1932	Seagate Presentation titled "Financial Expectations Q1'06 June Budget"	SEA03337475	SEA03337478
PX1933	Seagate Presentation titled "FY06 Plan June Budget "	SEA03337479	SEA03337490
PX1934	Seagate Presentation titled "Historical and Projected Trends"	SEA03337491	SEA03337500
PX1935	Seagate Presentation titled "Competitor Comparison "	SEA03337501	SEA03337507
PX1936	Seagate Presentation titled "Financial Review Q3'05 Actual "	SEA03337508	SEA03337515
PX1937	Seagate Presentation titled "Financial Expectations Q4'05 March Forecast"	SEA03337516	SEA03337519
PX1938	Seagate Presentation titled "FY05 Plan March Forecast "	SEA03337520	SEA03337529
PX1939	Seagate Presentation titled "Financial Review Q2'05 Actual "	SEA03337530	SEA03337537
PX1940	Seagate Presentation titled "Financial Expectations Q3'05 December Budget"	SEA03337538	SEA03337553
PX1941	Seagate Presentation titled "Historical and Projected Trends"	SEA03337554	SEA03337563
PX1942	Seagate Presentation titled "Competitor Comparison "	SEA03337564	SEA03337570
PX1943	Seagate Presentation titled "December Upside Opportunity"	SEA03337571	SEA03337579
PX1944	Seagate Presentation titled "Historical and Projected Trends"	SEA03337580	SEA03337589
PX1945	Seagate Presentation titled "Competitor Comparison "	SEA03337590	SEA03337596
PX1946	Seagate Presentation titled "Financial Review"	SEA03337597	SEA03337612
PX1947	Seagate Presentation titled "Historical and Projected Trends"	SEA03337613	SEA03337623
PX1948	Seagate Presentation titled "Competitor Comparison "	SEA03337624	SEA03337629
PX1949	Seagate Presentation titled "Financials Q3'04 Actuals & March Forecast "	SEA03337630	SEA03337661
PX1950	Seagate Presentation titled "Financials Q2'04 Actuals & December Forecast "	SEA03337662	SEA03337696